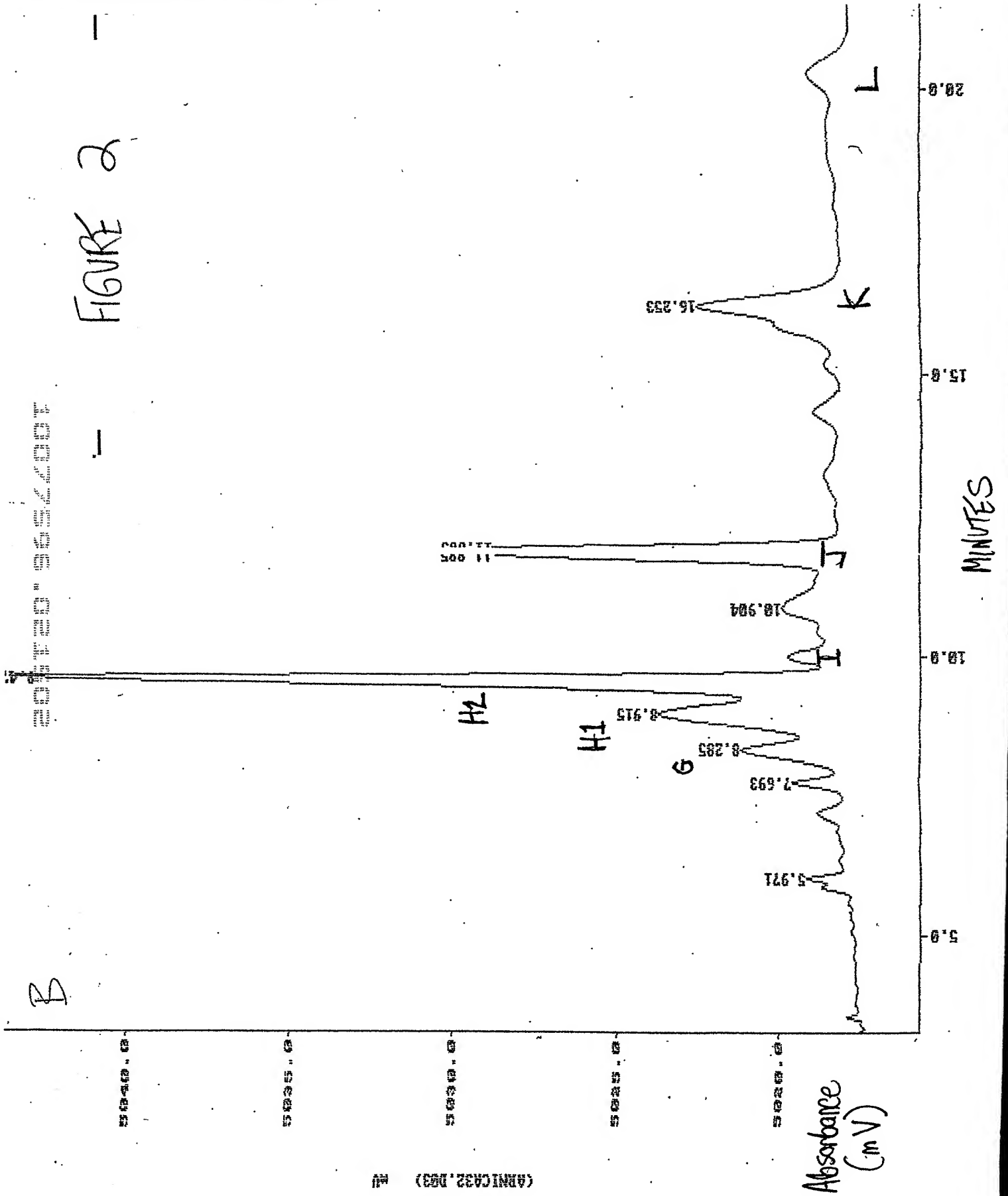


— FIGURE 1 —



Absorbance  
(mV)

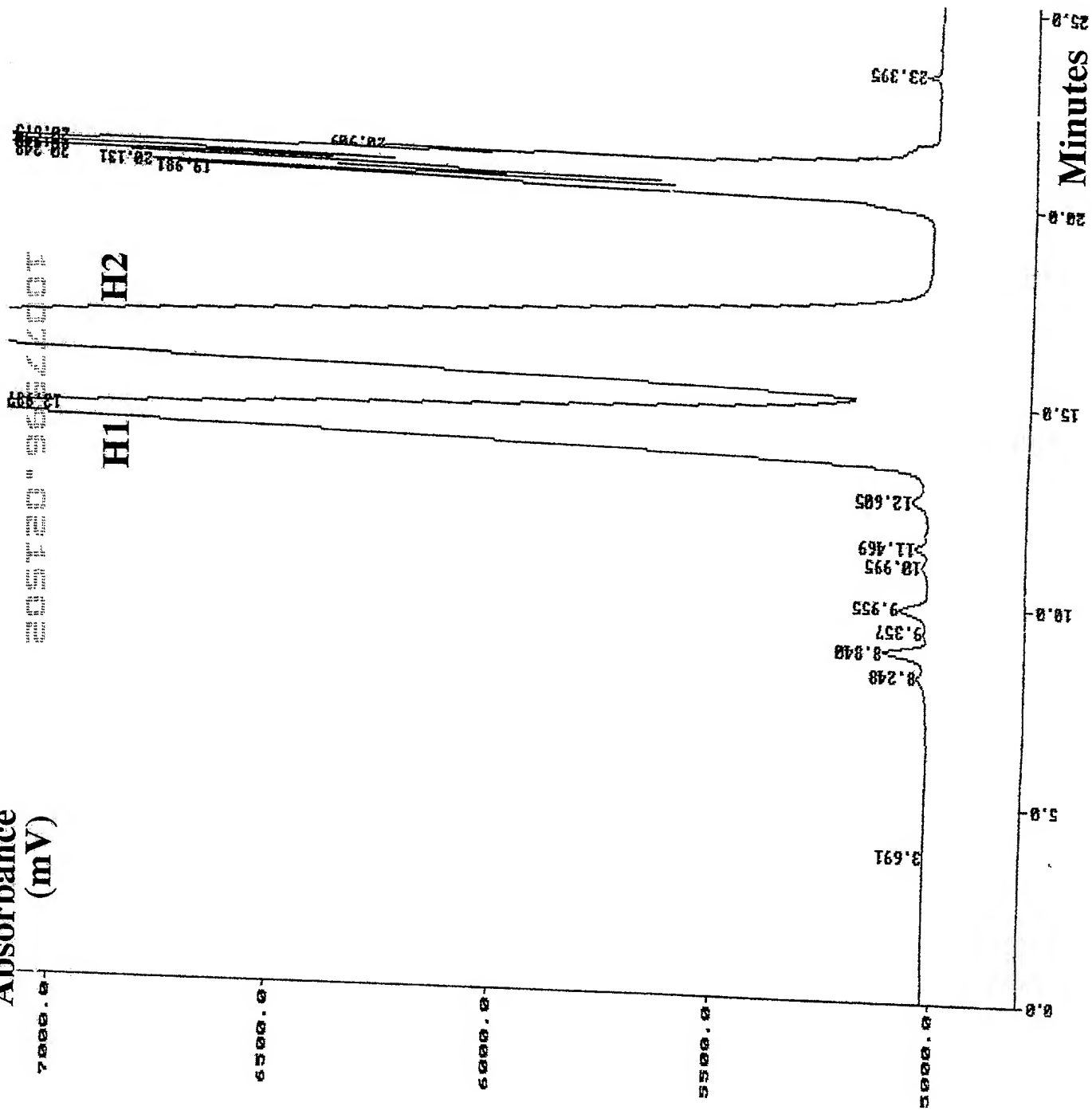


FIGURE 3

TC:TT:ZT : 001300100

**SAMPLES : 4043**

L 1661 62 6000  
 61 62 6000 : 6000

14-00000 (PROTECTED)

[illegible]

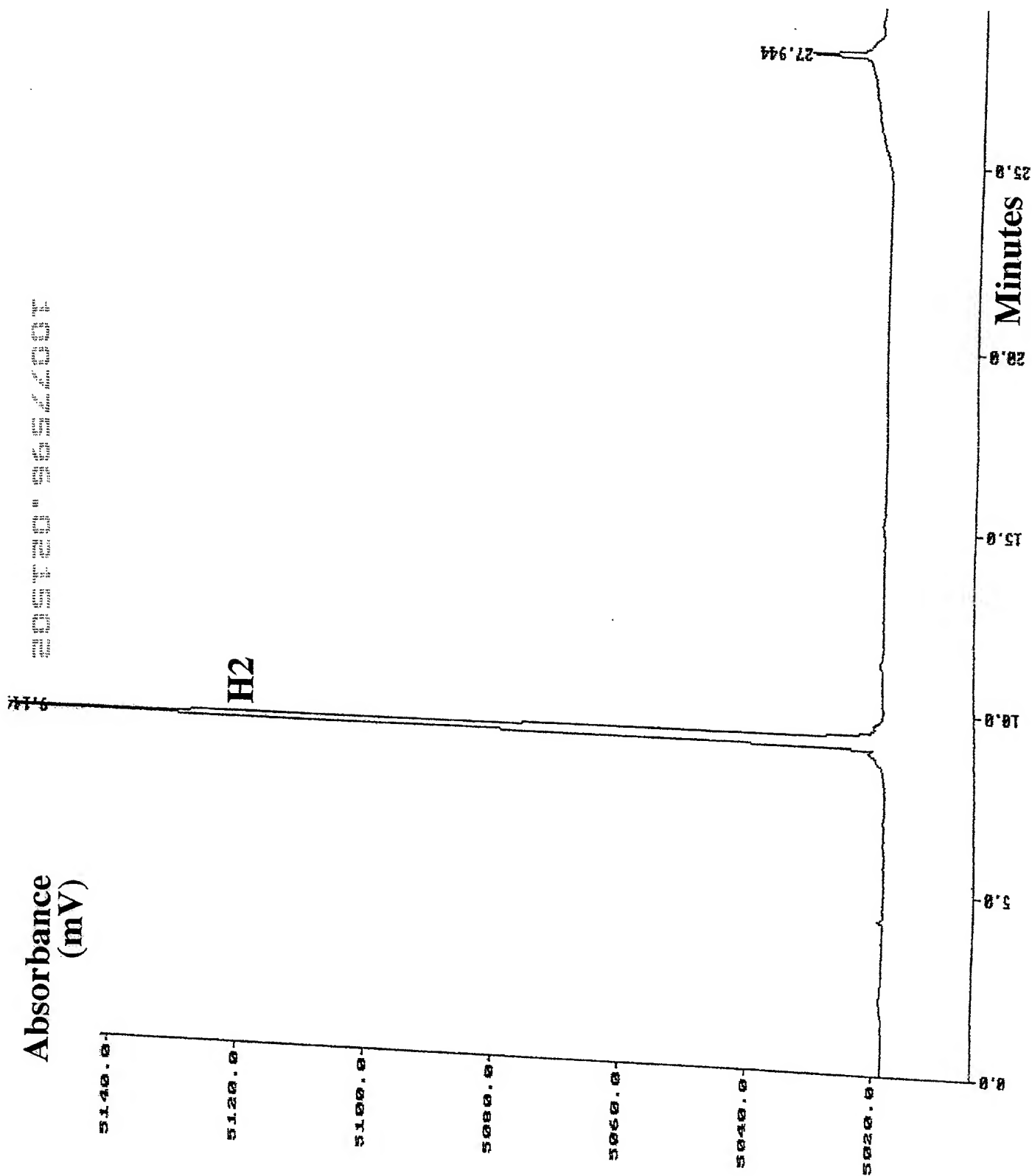


FIGURE 5

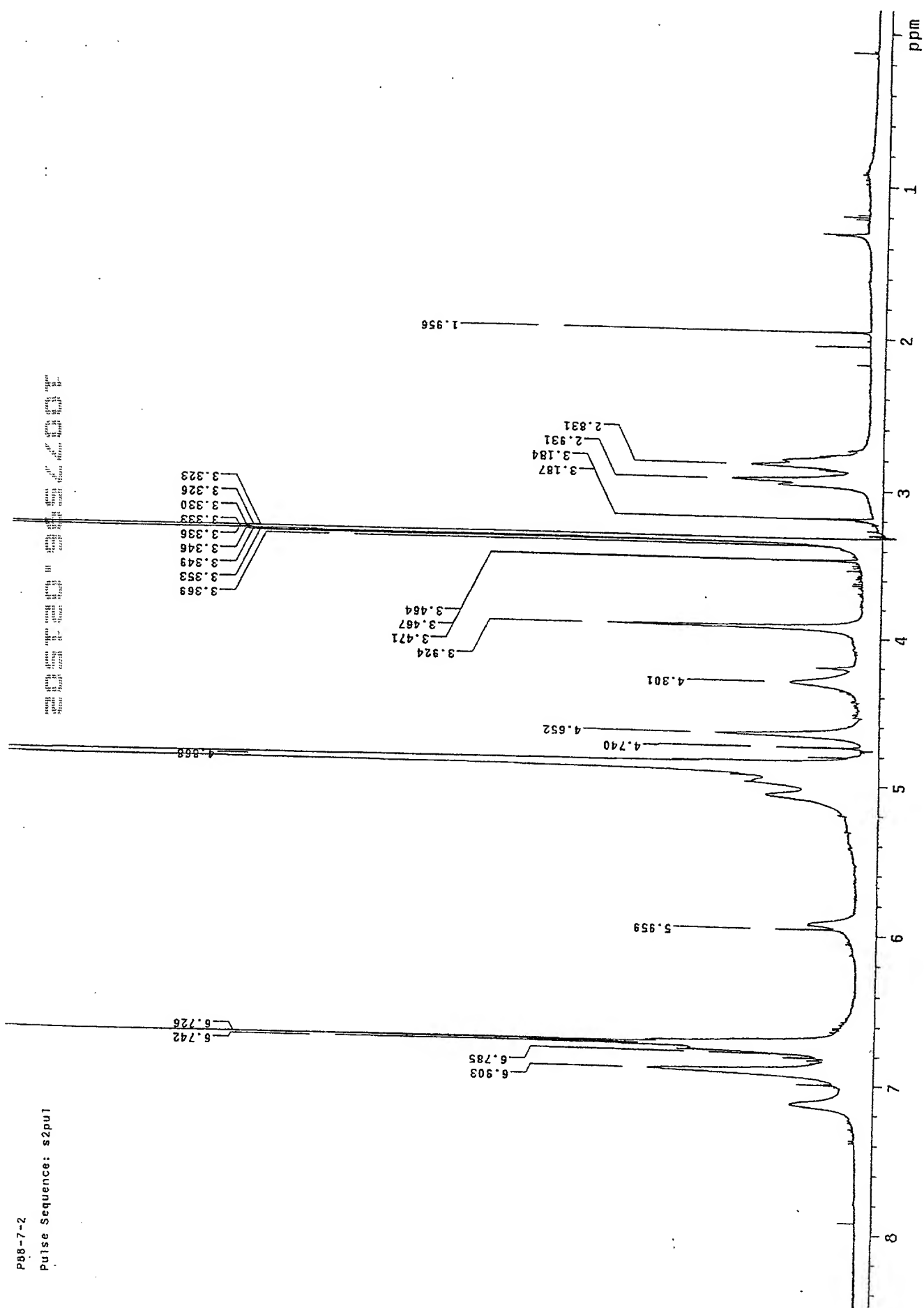
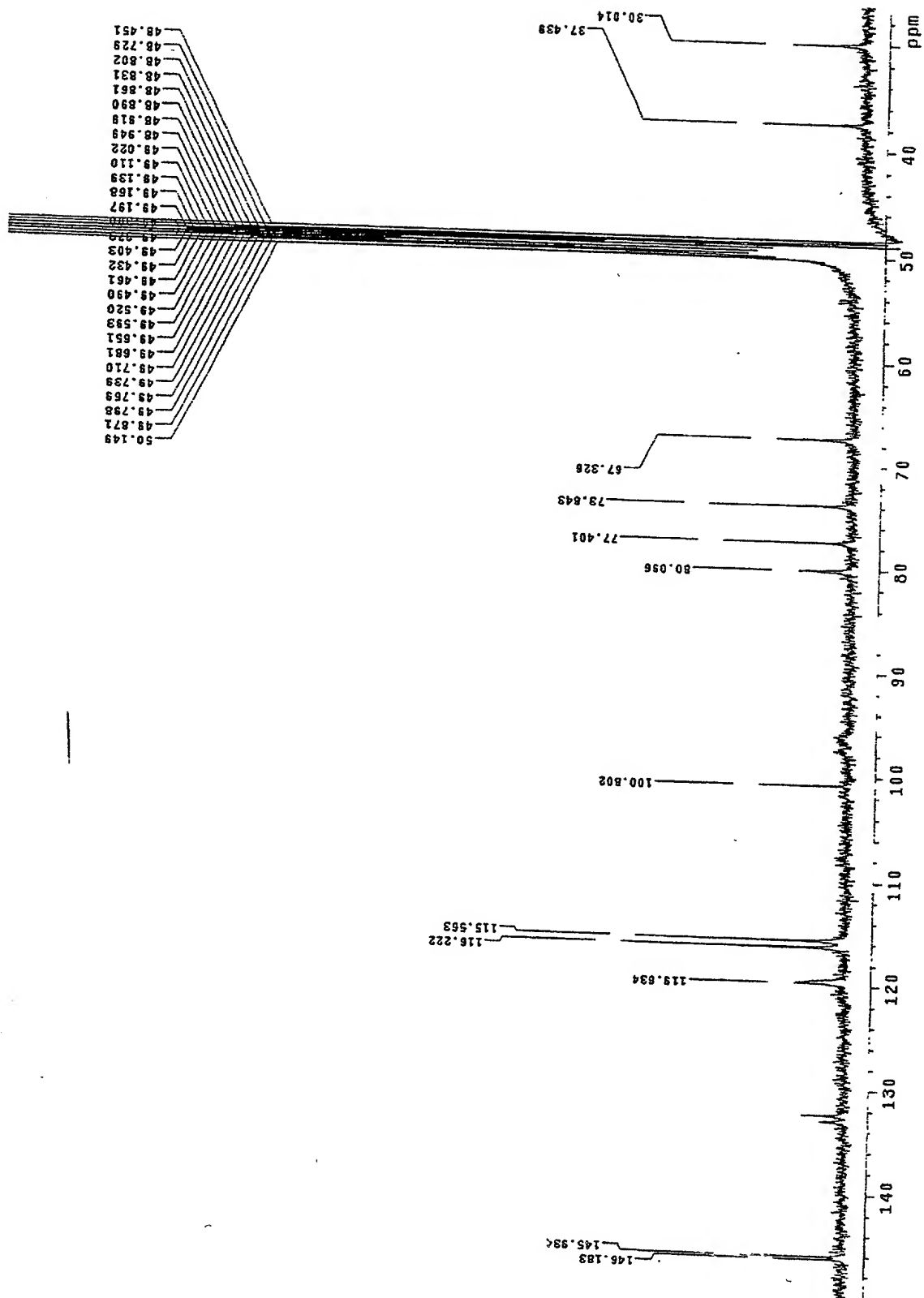


FIGURE 6

FIGURE 7



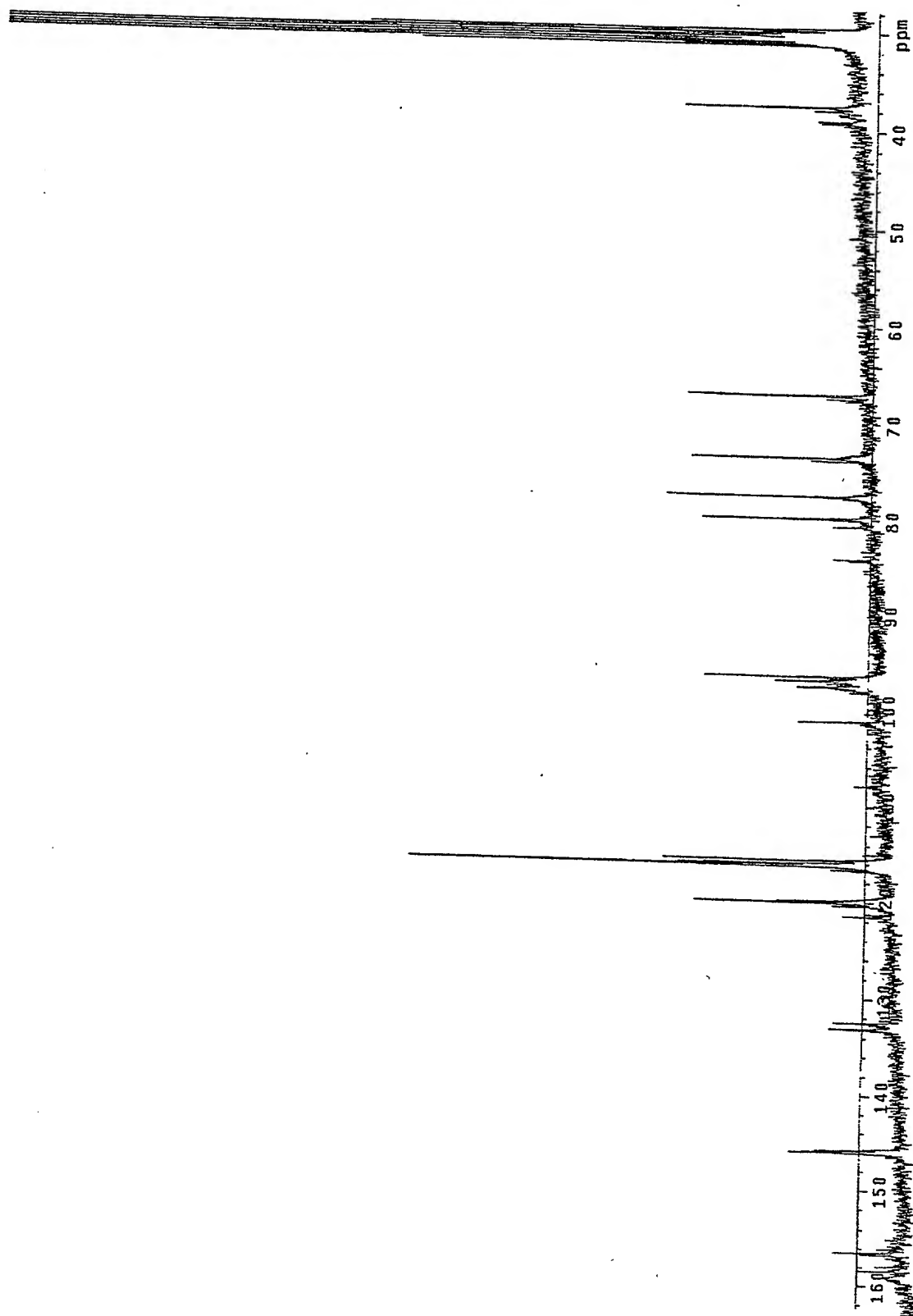
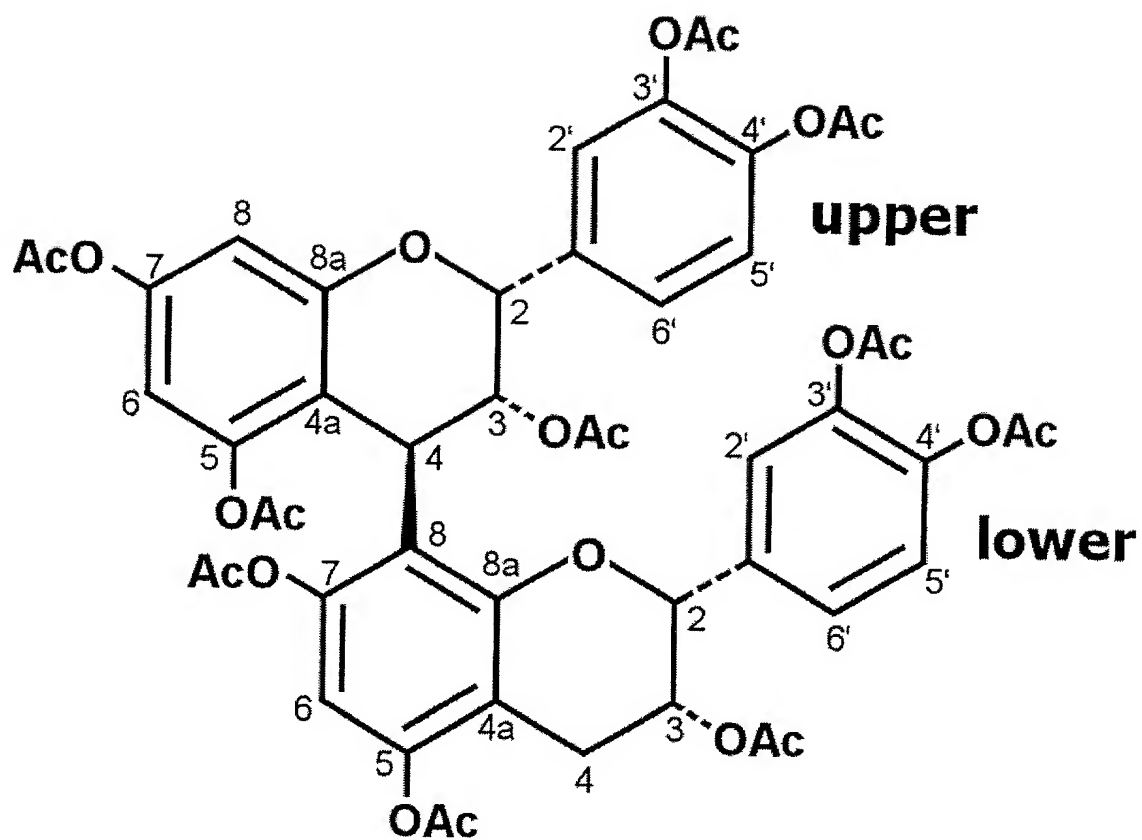


FIGURE 8

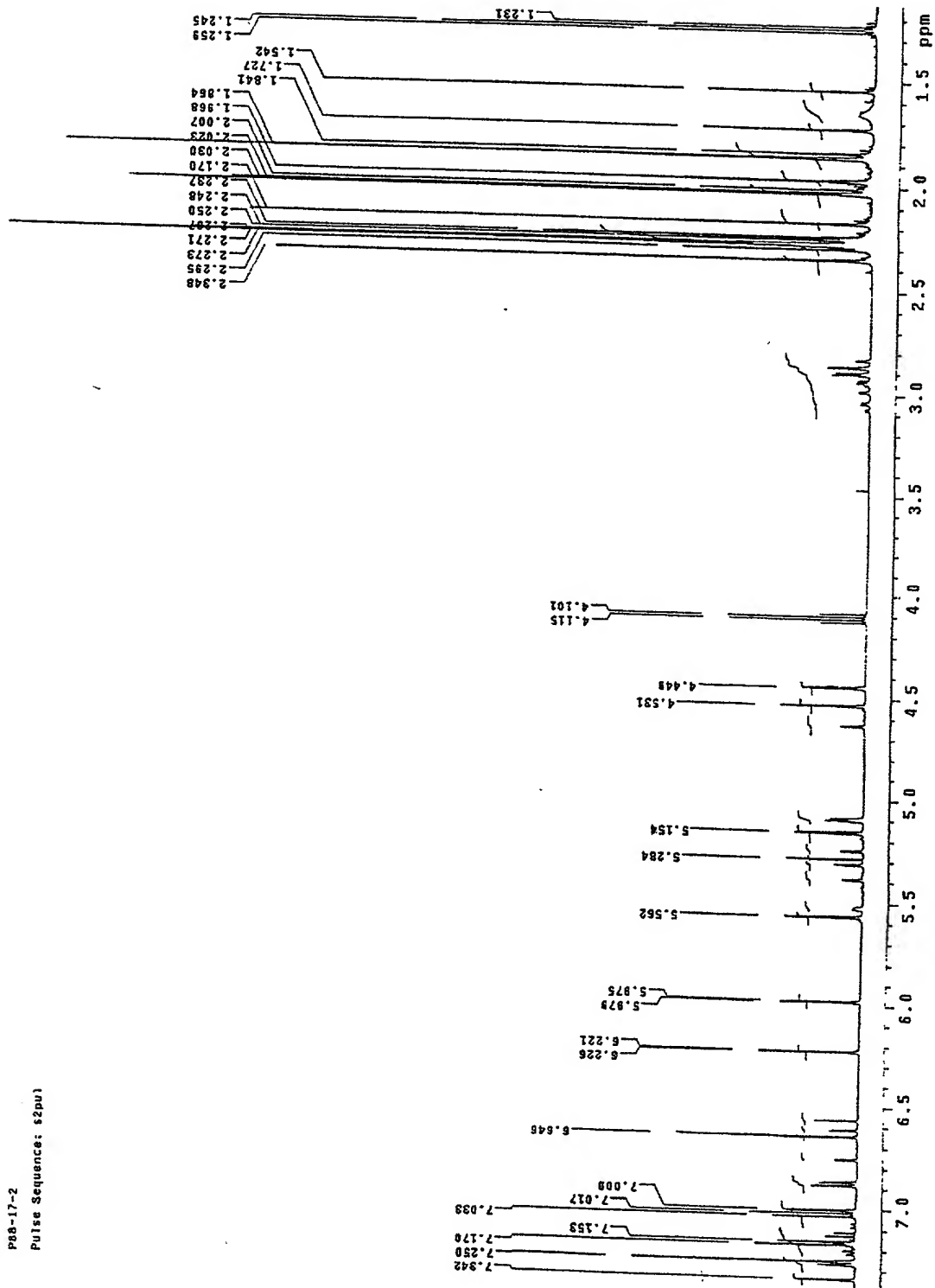






- FIGURE 10 -

P08-17-2  
Pulse Sequence: s2pul



NMR 8. <sup>1</sup>H NMR spectrum of H<sub>2</sub> peracetate (3) in CDCl<sub>3</sub>.

FIGURE 11

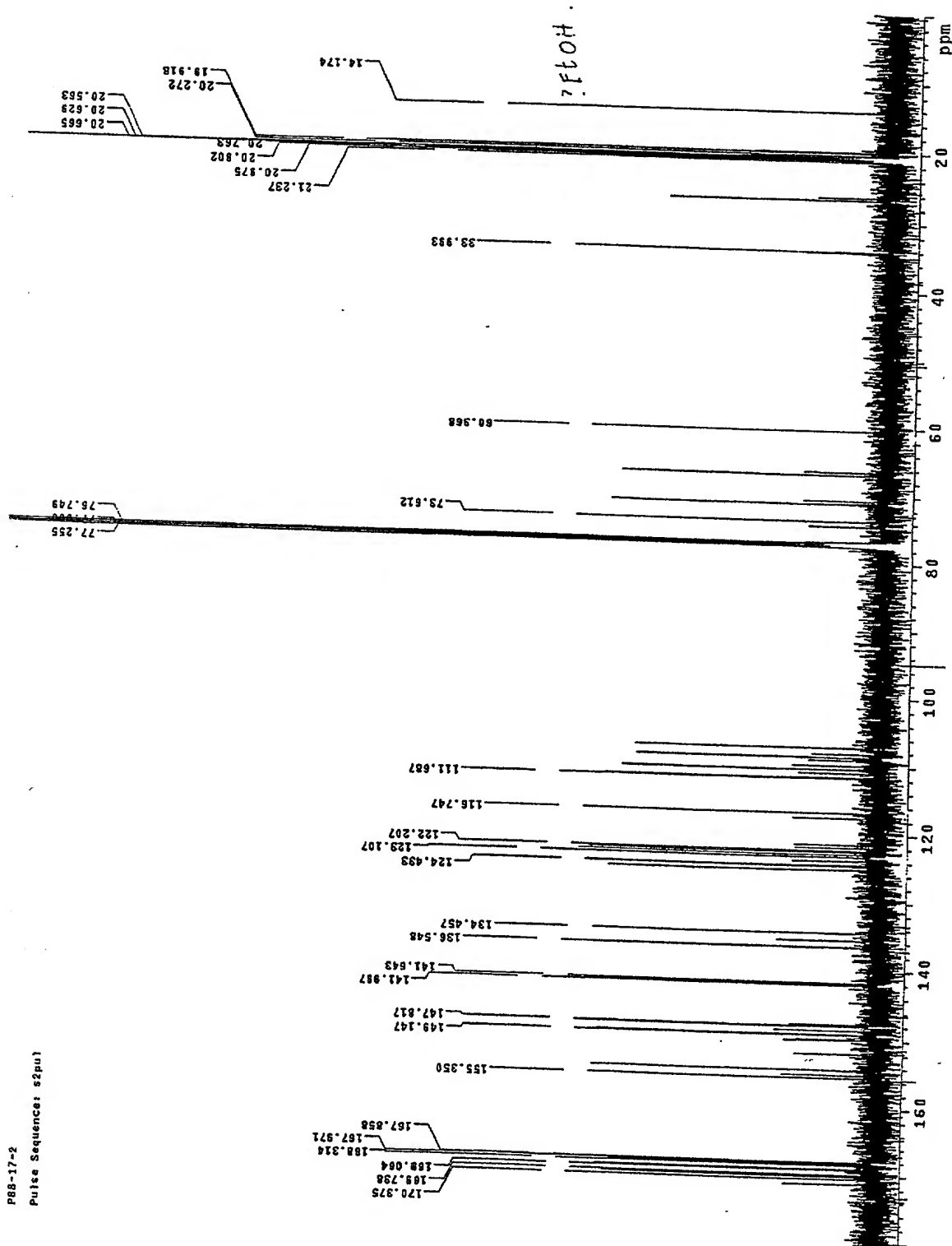
[illegible]

FIGURE 18

P88-17-2

Pulse Sequence: CIGAR

Solvent: CDCl<sub>3</sub>

Temp: 25.0 C / 298.1 K

User: 1-14-87

INNOVA-500 "europa"

Relax. delay 1.000 sec

Acq. time 0.241 sec

Width 4247.8 Hz

2D Width 22618.0 Hz

32 repetitions

400 increments

OBSERVE F1 439.7581575 MHz

DATA PROCESSING

Phase shift on 0.121 sec

Sine bell 0.121 sec

F1 DATA PROCESSING

Gauss apodization 0.018 sec

Sine bell 0.018 sec

FT size 2048 x 8192

Total time 4 hr, 57 min, 38 sec

NMR 12 CIGAR <sup>1</sup>H - <sup>13</sup>C correlation spectrum of H2 peracetate (3).

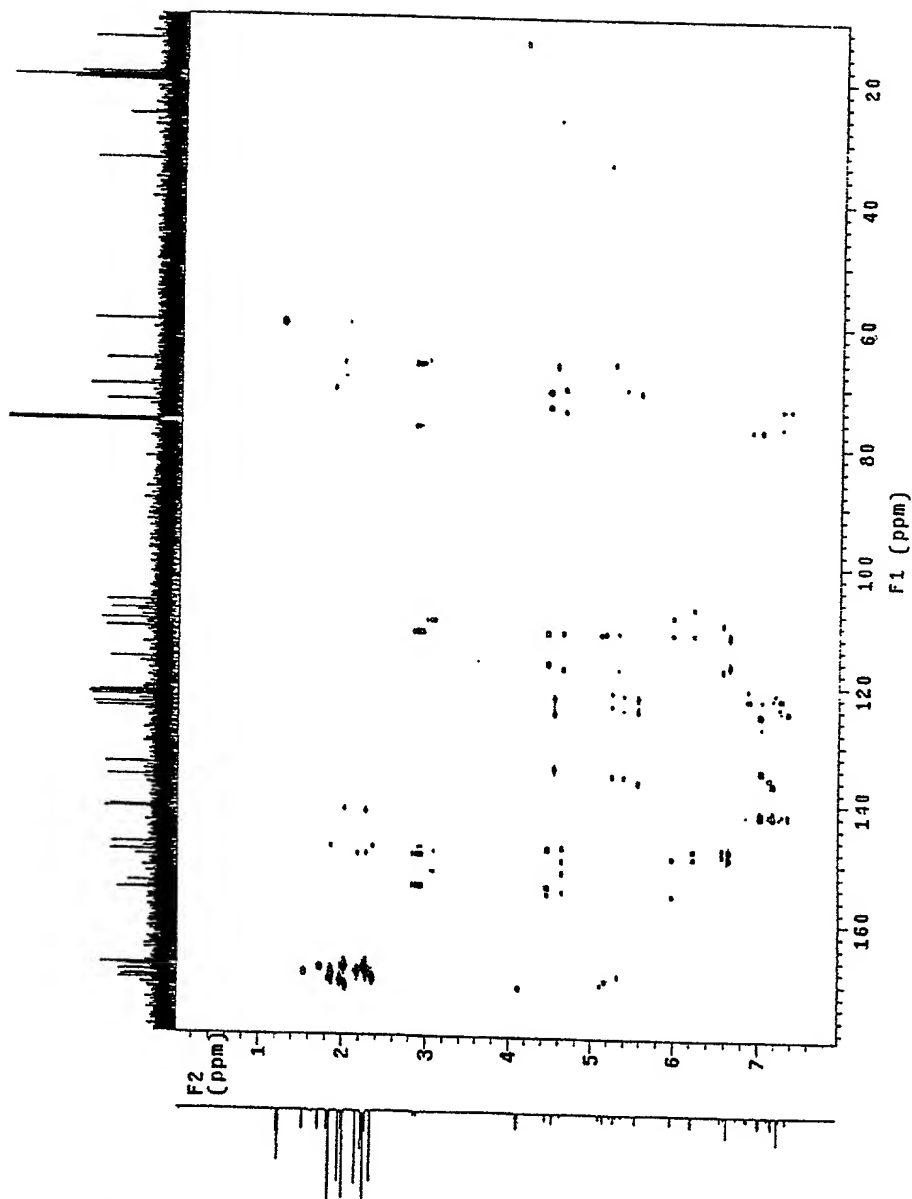
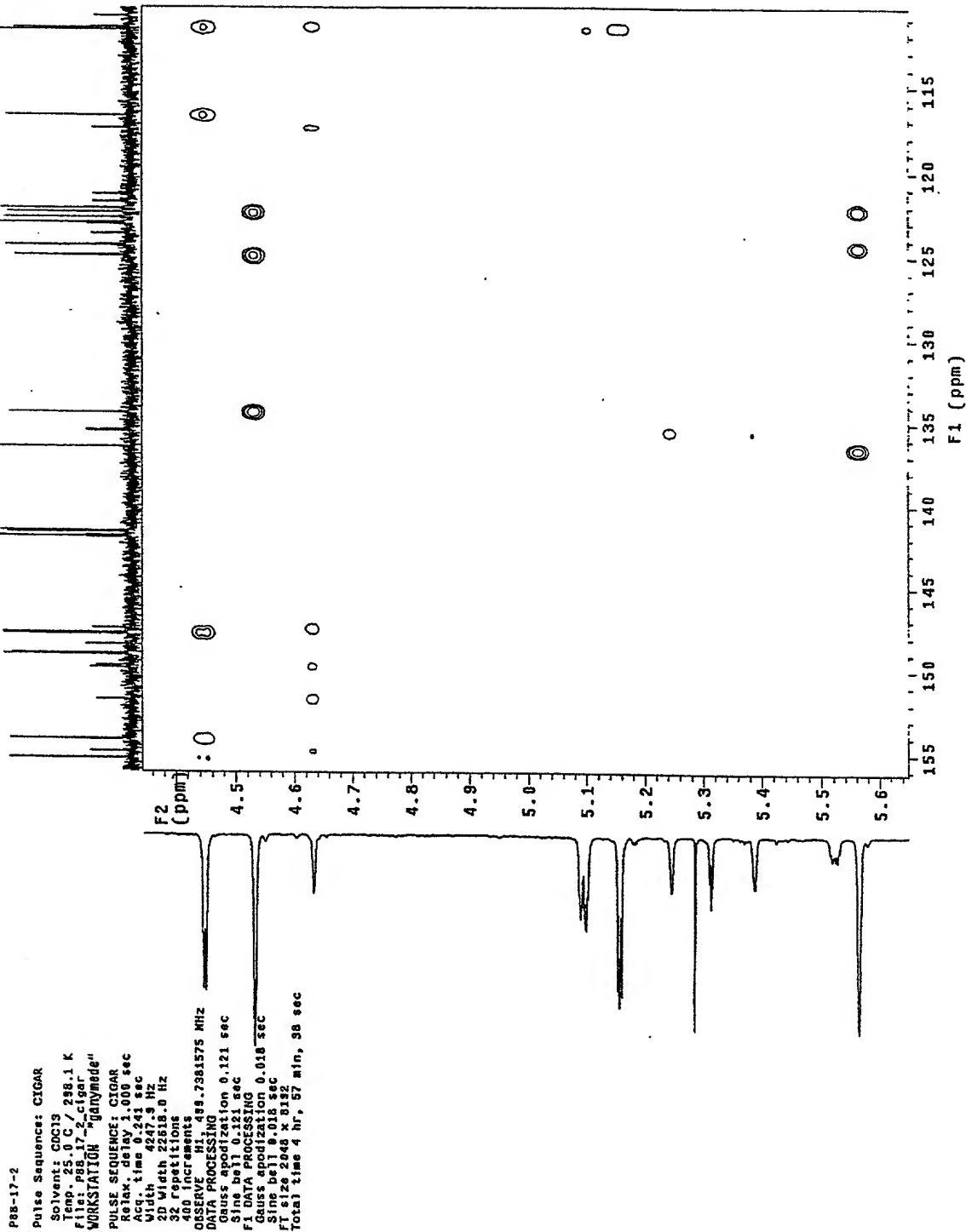


FIGURE 13



NMR 14 NOESY Correlation spectrum of H2 peracetate (3).

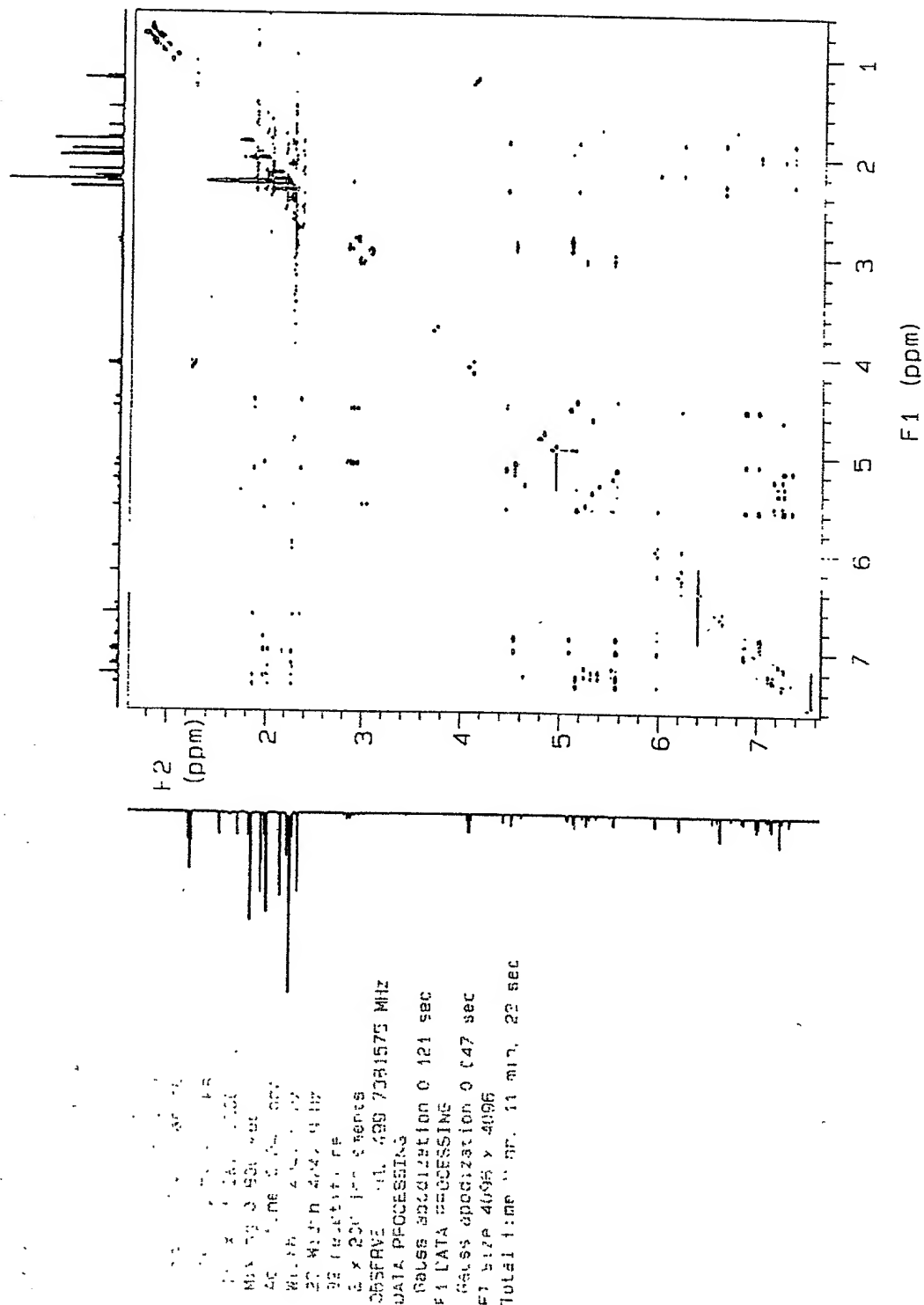


FIGURE 15

P88-17-2

Pulse Sequence: NOESY

Solvent: CDC13  
Temp. 25.0 C / 298.1 K  
File: P88\_17\_2\_noesy8  
WORKSTATION "ganymede"

PULSE SEQUENCE: NOESY  
Relax. delay 1.500 sec  
Mixing 0.800 sec  
Acq. time 0.241 sec  
Width 4247.9 Hz  
2D Width 4247.9 Hz  
32 repetitions

2 x 200 increments  
OBSERVE H1. 499.7381575 MHz  
DATA PROCESSING  
Gauss apodization 0.121 sec  
F1 DATA PROCESSING  
Gauss apodization 0.047 sec  
FT size 4096 x 4096  
Total time 9 hr. 11 min. 23 sec

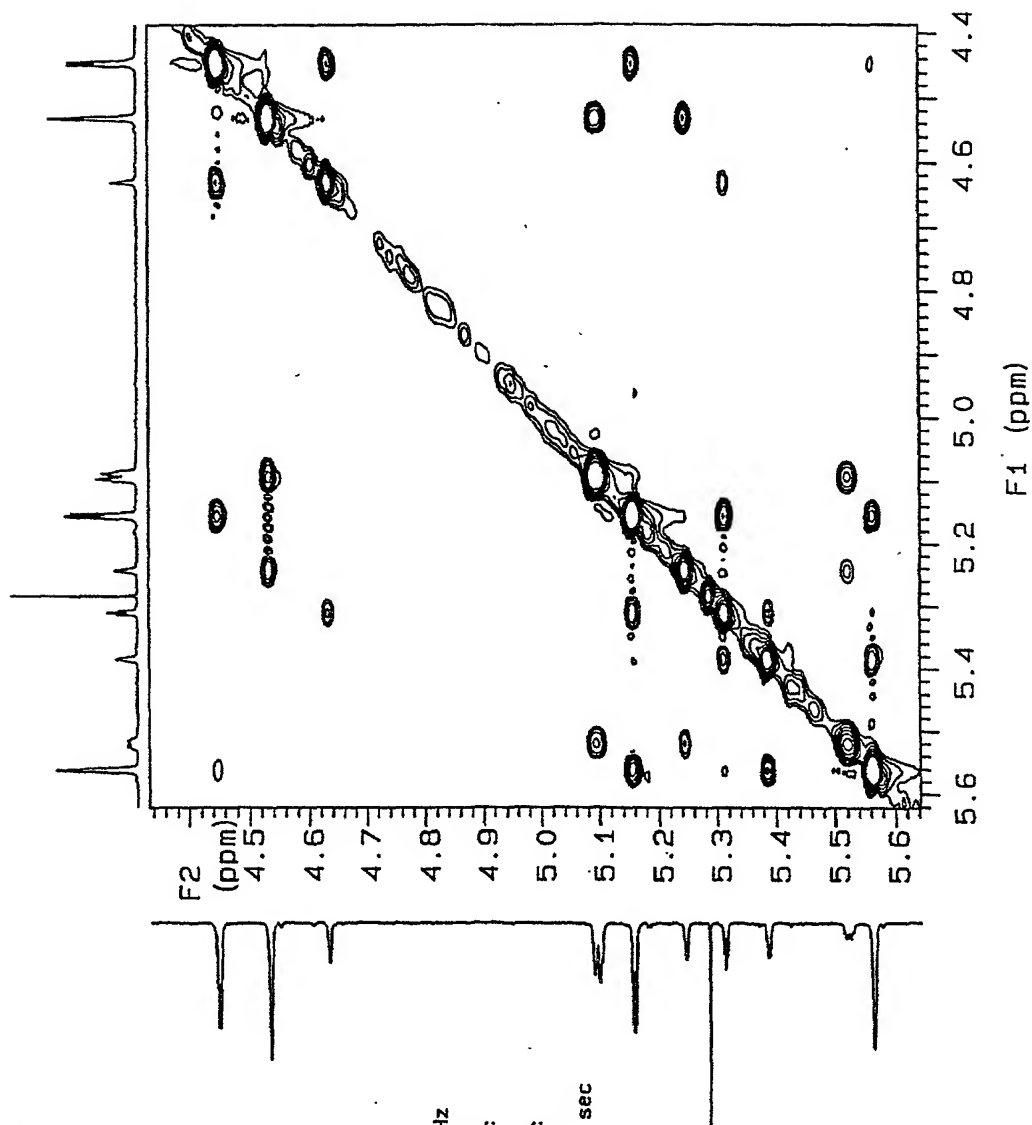


FIGURE 16



P88-17-2

Pulse Sequence: NOESY

Solvent: CDC13  
Temp. 25.0 C / 298.1 K  
File: P88\_17\_2\_noesy8  
WORKSTATION "ganymede"

PULSE SEQUENCE: NOESY  
Relax. delay 1.500 sec  
Mixing 0.800 sec  
Acq. time 0.241 sec  
Width 4247.9 Hz  
20 Width 4247.9 Hz  
32 repetitions

2 x 200 increments  
OBSERVE H1, 499.7381575 MHz  
DATA PROCESSING  
Gauss apodization 0.121 sec  
F1 DATA PROCESSING  
Gauss apodization 0.047 sec  
FT size 4096 x 4096  
Total time 9 hr. 11 min. 23 sec

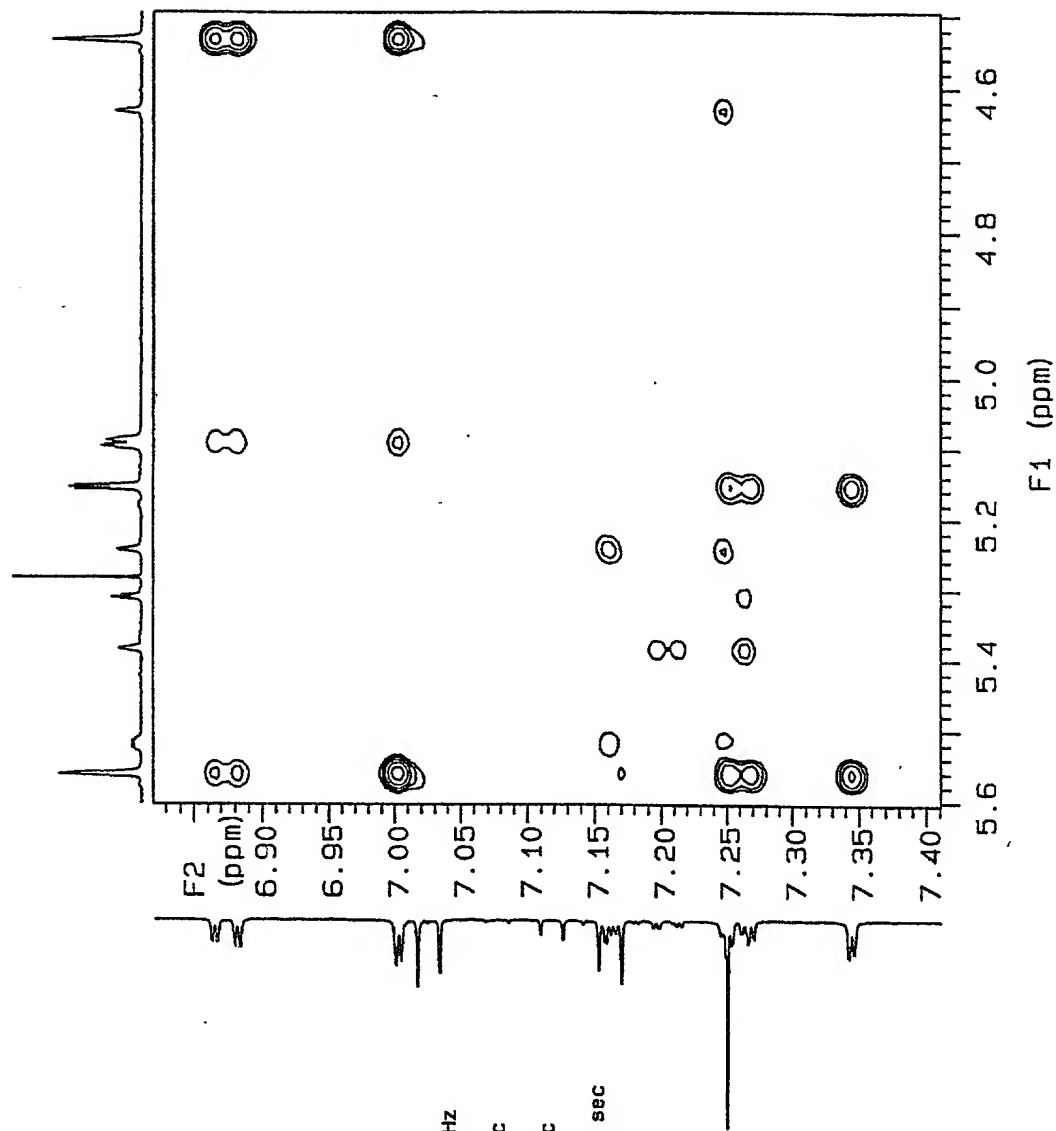
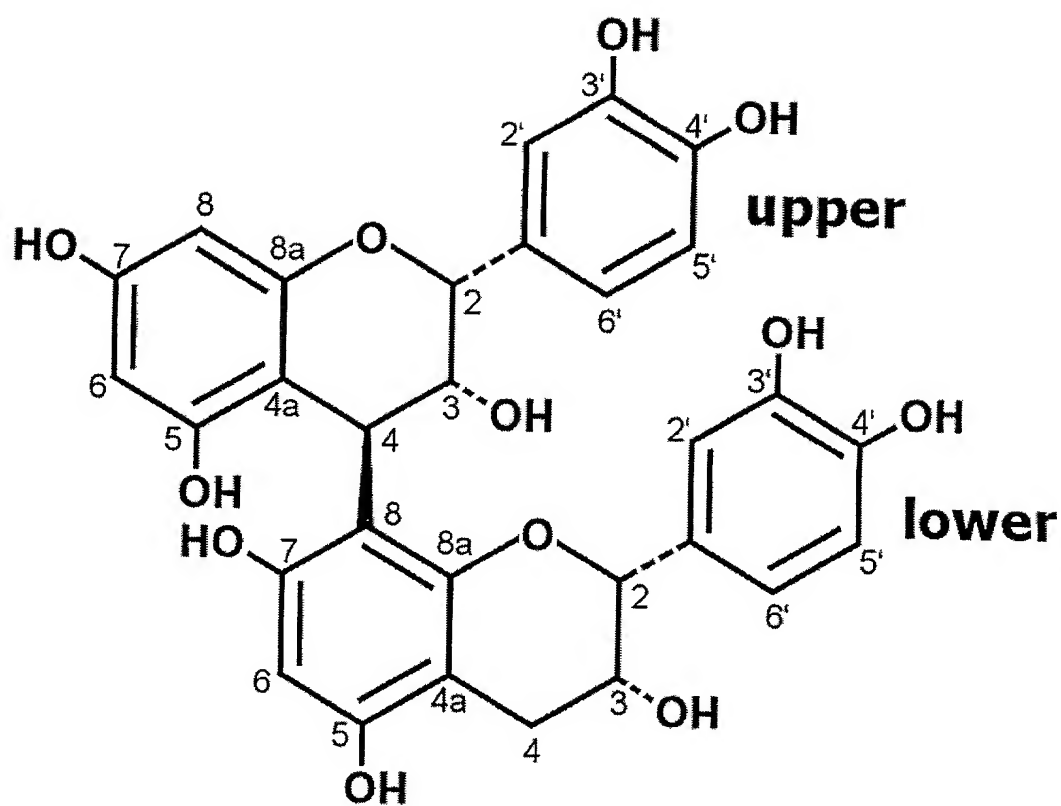


FIGURE 17



— FIGURE 18 —

$^1\text{H}$  NMR spectrum of 1,2,3,4,5-pentachlorobenzene in  $\text{CDCl}_3$ . The spectrum shows a complex multiplet in the aromatic region (6.5-7.5 ppm) and a triplet for the solvent ( $\text{CDCl}_3$  at 7.26 ppm). Integration values are provided for several peaks.

Chemical Shift (ppm)	Integration
7.26	1.221
7.16	3.166
7.09	9.78
6.93	1.93
6.71	1.71
6.64	1.64
6.57	9.87
6.43	5.73
6.36	3.86
6.26	4.94
6.18	5.26
6.09	4.38
6.03	1.94
5.83	2.00
5.81	1.81
2.88	9.25
2.83	2.88

	1	2	3	4	5	6	7	8	9	10
1	0.83	3.16	99.78	1.71	9.87					
2	1.22	1.58	7.93	1.93	1.64	5.73				

10

Year	Area	Population	Area	Population	Area	Population
1950	1,000	100,000	1,000	100,000	1,000	100,000
1955	1,000	100,000	1,000	100,000	1,000	100,000
1960	1,000	100,000	1,000	100,000	1,000	100,000
1965	1,000	100,000	1,000	100,000	1,000	100,000
1970	1,000	100,000	1,000	100,000	1,000	100,000
1975	1,000	100,000	1,000	100,000	1,000	100,000
1980	1,000	100,000	1,000	100,000	1,000	100,000
1985	1,000	100,000	1,000	100,000	1,000	100,000
1990	1,000	100,000	1,000	100,000	1,000	100,000
1995	1,000	100,000	1,000	100,000	1,000	100,000
2000	1,000	100,000	1,000	100,000	1,000	100,000
2005	1,000	100,000	1,000	100,000	1,000	100,000
2010	1,000	100,000	1,000	100,000	1,000	100,000
2015	1,000	100,000	1,000	100,000	1,000	100,000
2020	1,000	100,000	1,000	100,000	1,000	100,000
2025	1,000	100,000	1,000	100,000	1,000	100,000
2030	1,000	100,000	1,000	100,000	1,000	100,000
2035	1,000	100,000	1,000	100,000	1,000	100,000
2040	1,000	100,000	1,000	100,000	1,000	100,000
2045	1,000	100,000	1,000	100,000	1,000	100,000
2050	1,000	100,000	1,000	100,000	1,000	100,000
2055	1,000	100,000	1,000	100,000	1,000	100,000
2060	1,000	100,000	1,000	100,000	1,000	100,000
2065	1,000	100,000	1,000	100,000	1,000	100,000
2070	1,000	100,000	1,000	100,000	1,000	100,000
2075	1,000	100,000	1,000	100,000	1,000	100,000
2080	1,000	100,000	1,000	100,000	1,000	100,000
2085	1,000	100,000	1,000	100,000	1,000	100,000
2090	1,000	100,000	1,000	100,000	1,000	100,000
2095	1,000	100,000	1,000	100,000	1,000	100,000
2100	1,000	100,000	1,000	100,000	1,000	100,000

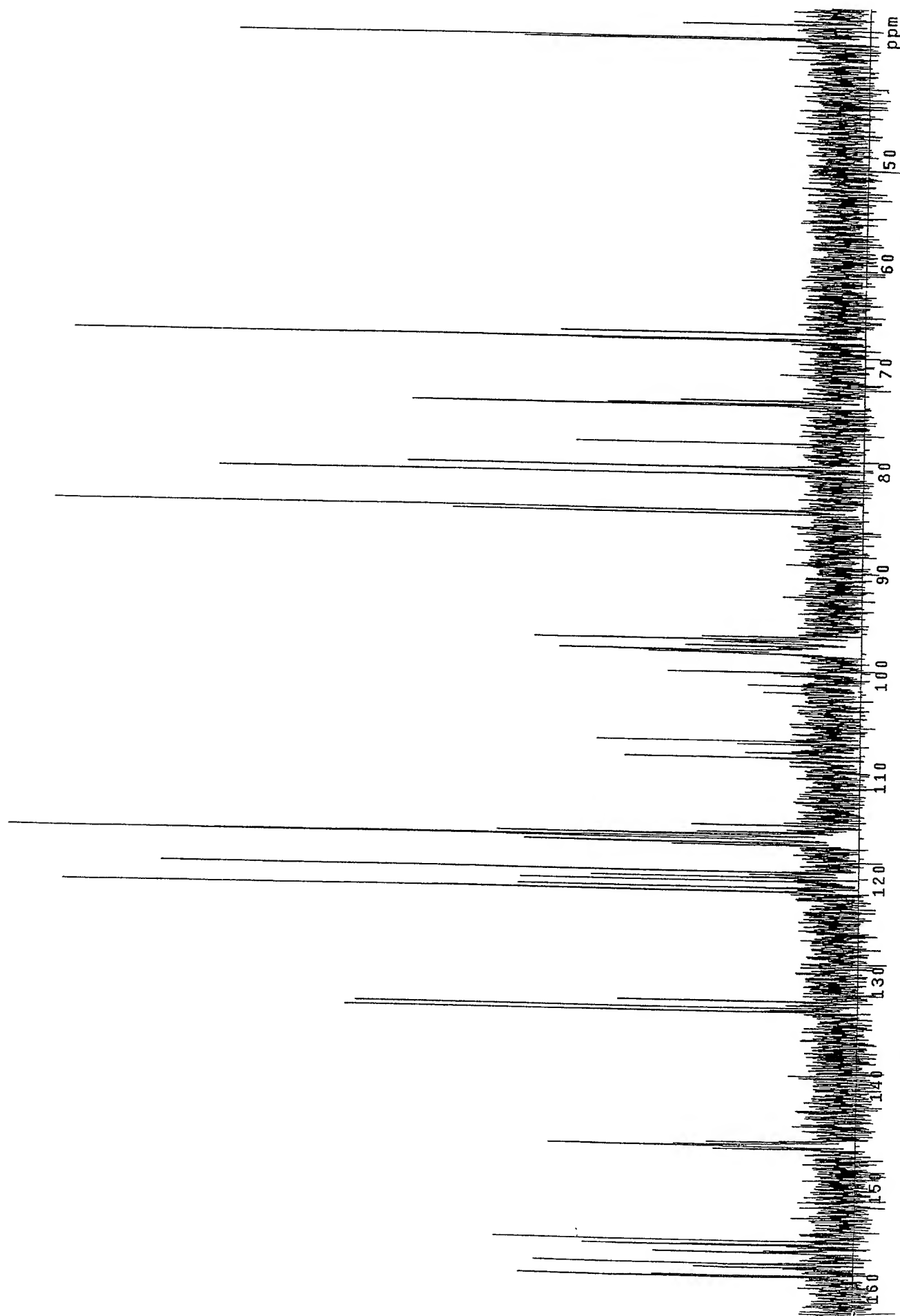
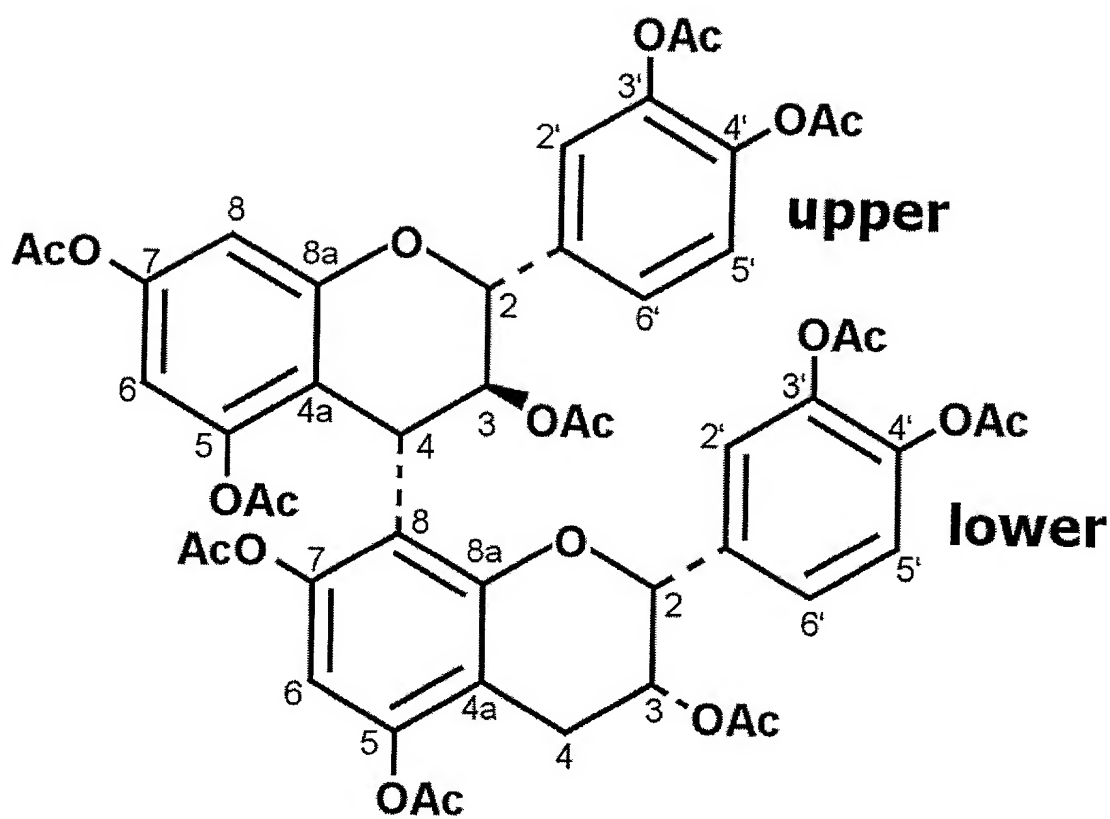
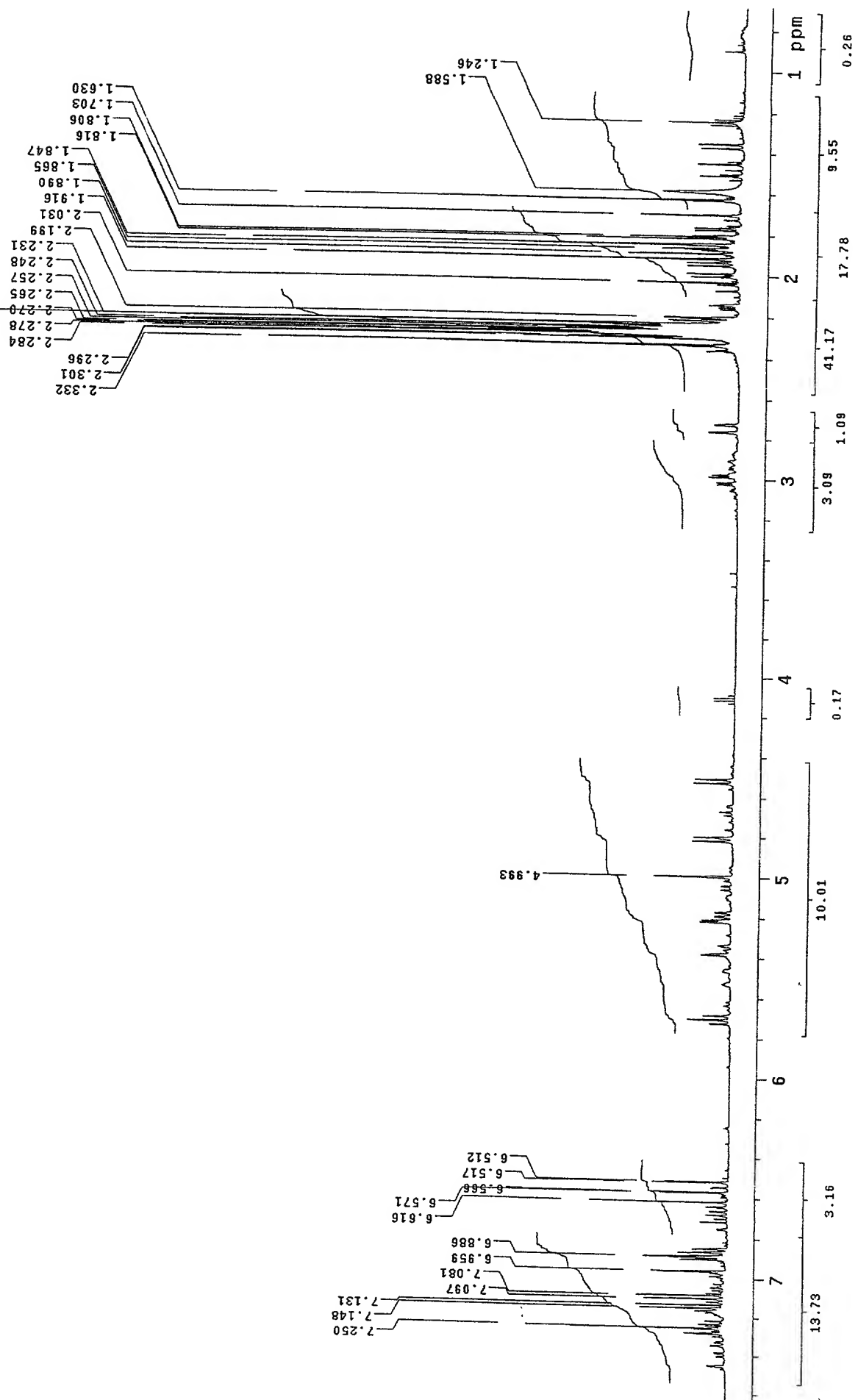


FIGURE 28



— FIGURE 21 —



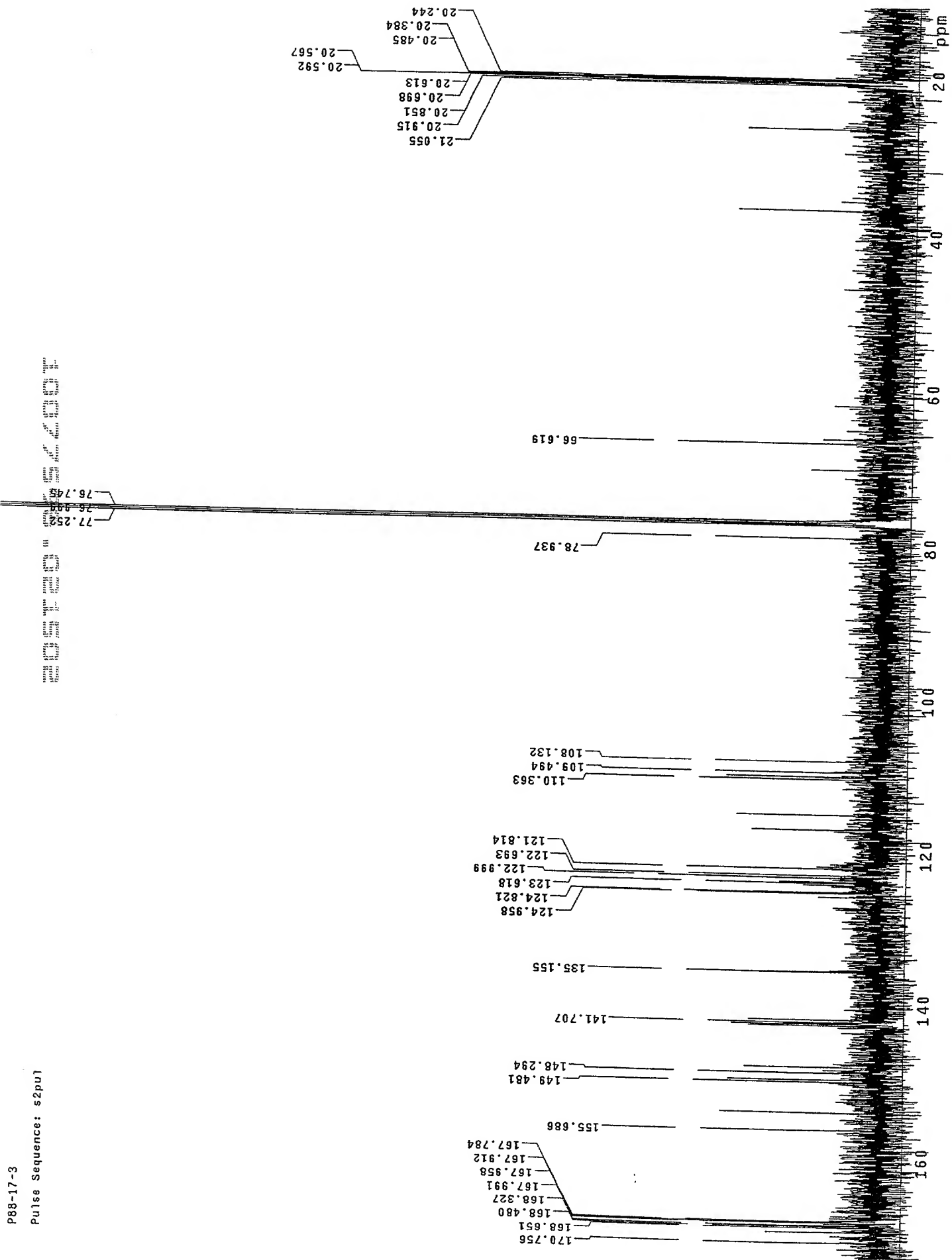


FIGURE 23

## Pulse Sequence: CIGAR

Solvent: CDCl<sub>3</sub>  
 Temp. 25.0 C / 298.1 K  
 User: 1-14-87  
 INOVA-500 "europa"

Relax. delay 1.000 sec  
 Acq. time 0.205 sec  
 Width 4997.5 Hz  
 2D Width 25133.5 Hz  
 64 repetitions  
 256 increments  
 OBSERVE H1, 499.7381559 MHz  
 DATA PROCESSING  
 Gauss apodization 0.102 sec  
 Sine bell 0.102 sec  
 F1 DATA PROCESSING  
 Gauss apodization 0.016 sec  
 Sine bell 0.007 sec  
 FT size 2048 x 4096  
 Total time 6 hr, 9 min, 51 sec

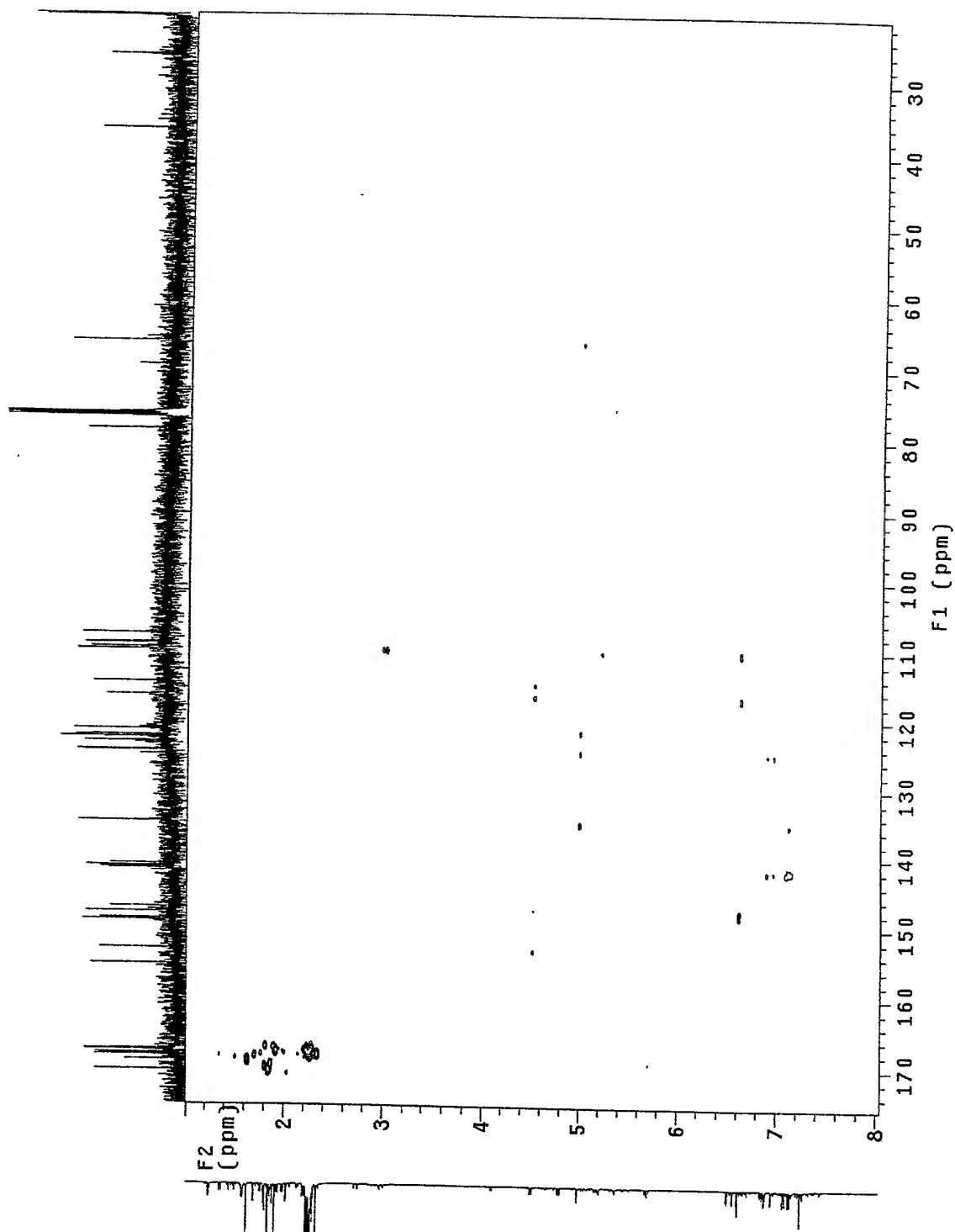


FIGURE 24



P88-17-3

Pulse Sequence: CIGAR

Solvent: CDC13

Temp. 25.0 C / 298.1 K

File: P88\_17\_3\_cigar

WORKSTATION "ganymede"

PULSE SEQUENCE: CIGAR

Relax. delay 1.000 sec

Acq. time 0.205 sec

Width 4997.5 Hz

2D Width 25133.5 Hz

64 repetitions

256 increments

OBSERVE H1, 499.7381559 MHz

DATA PROCESSING

Gauss apodization 0.102 sec

Sine bell 0.102 sec

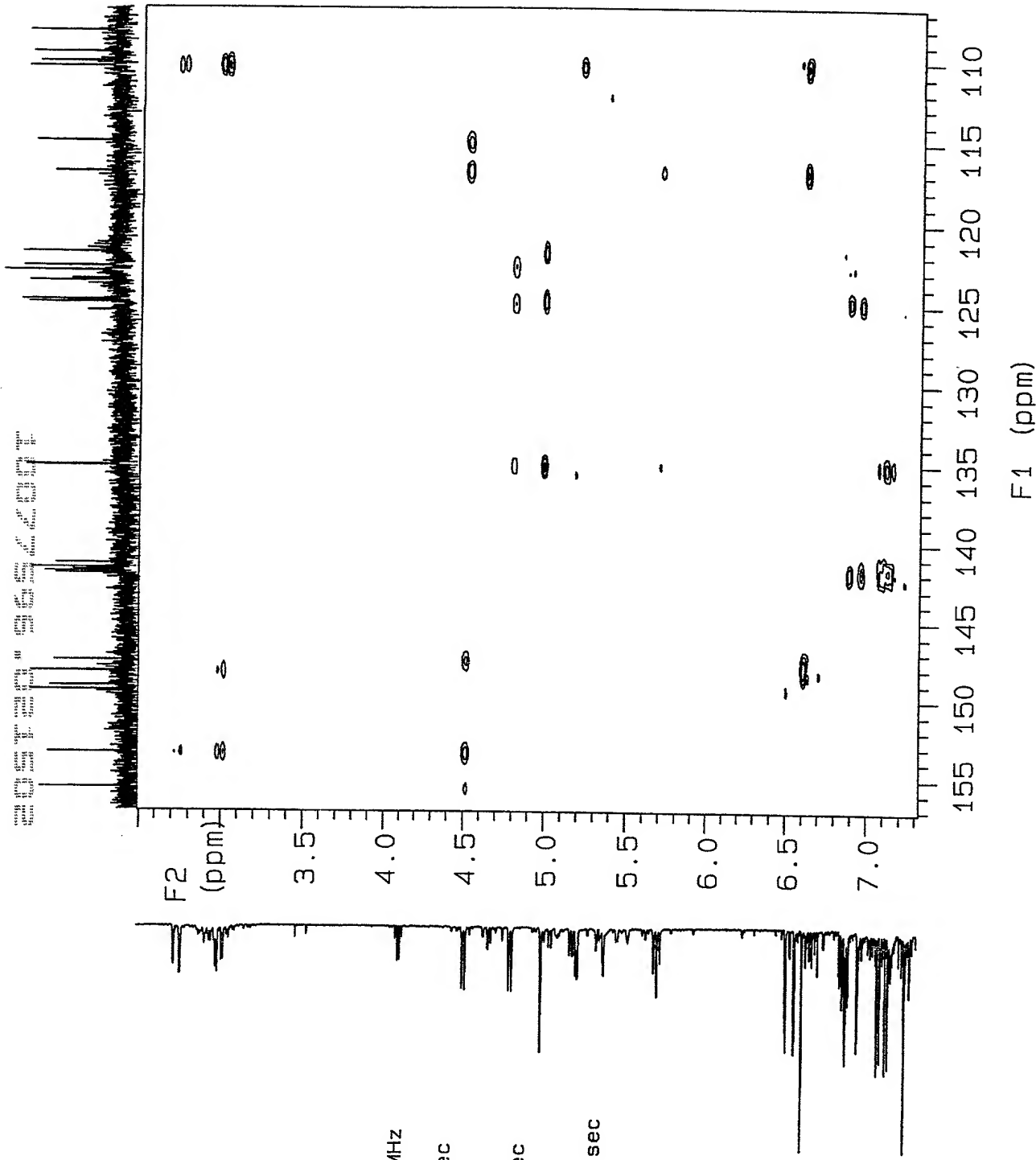
F1 DATA PROCESSING

Gauss apodization 0.016 sec

Sine bell 0.007 sec

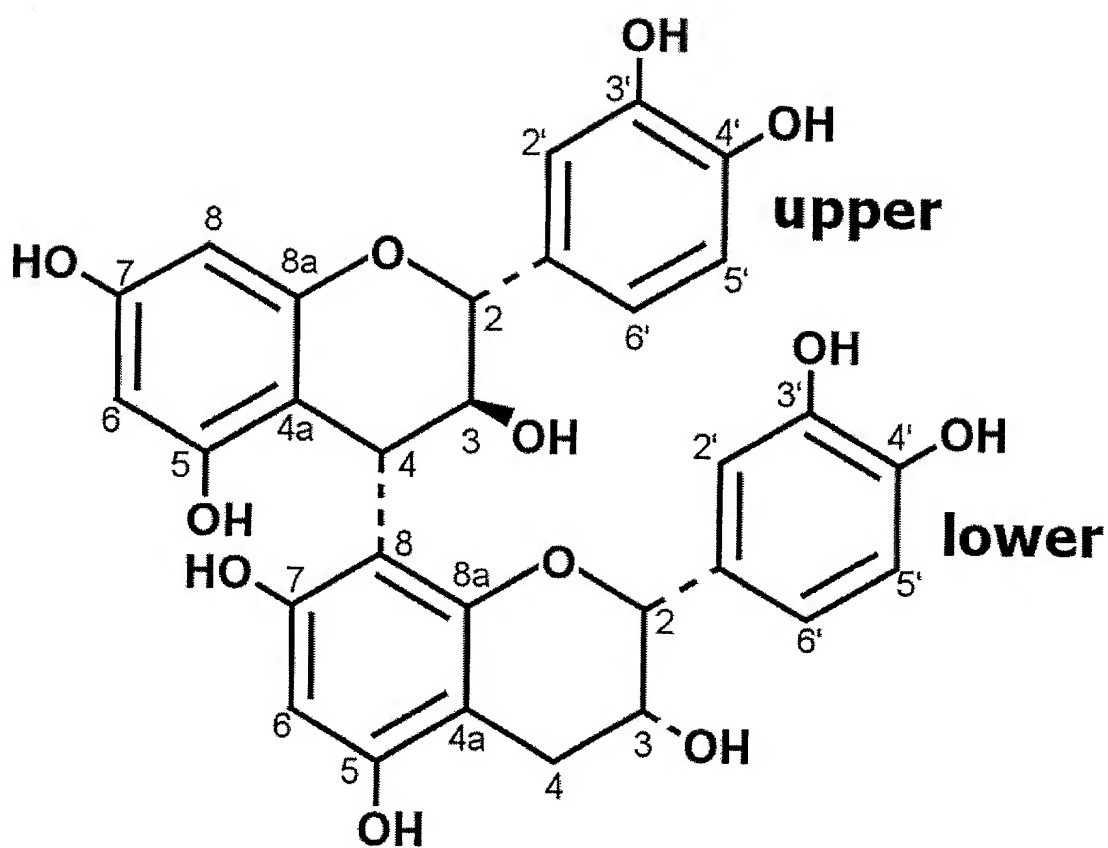
FT size 2048 x 4096

Total time 6 hr, 9 min, 51 sec



F1 (ppm)

FIGURE 25



- FIGURE 26 -

Year	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	



1

Absorbance  
(mV)

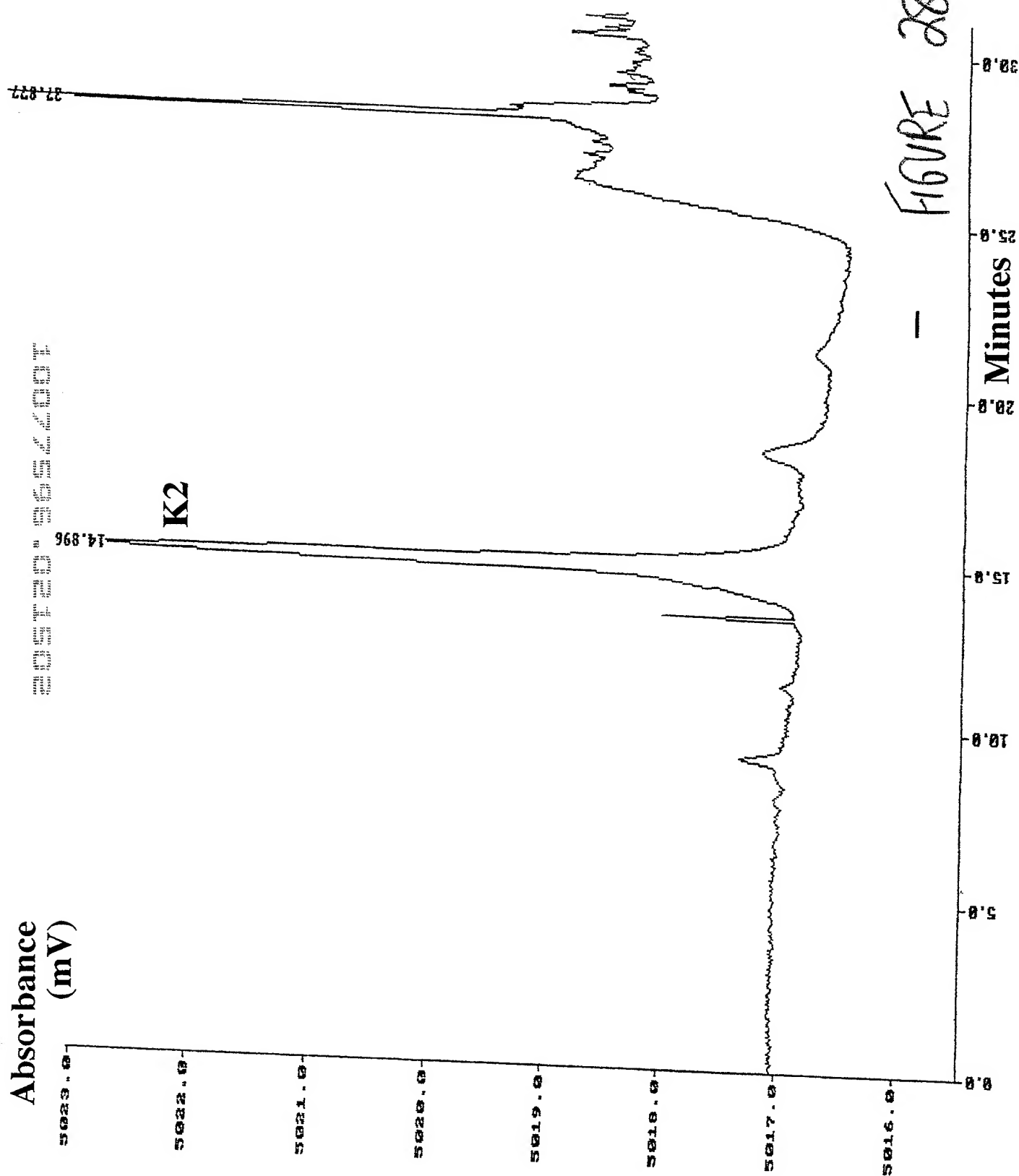


FIGURE 28

TOF MS ES- 1.21e3

88-11-1 100ng INJECTED

-CR10083 27 (0.452)

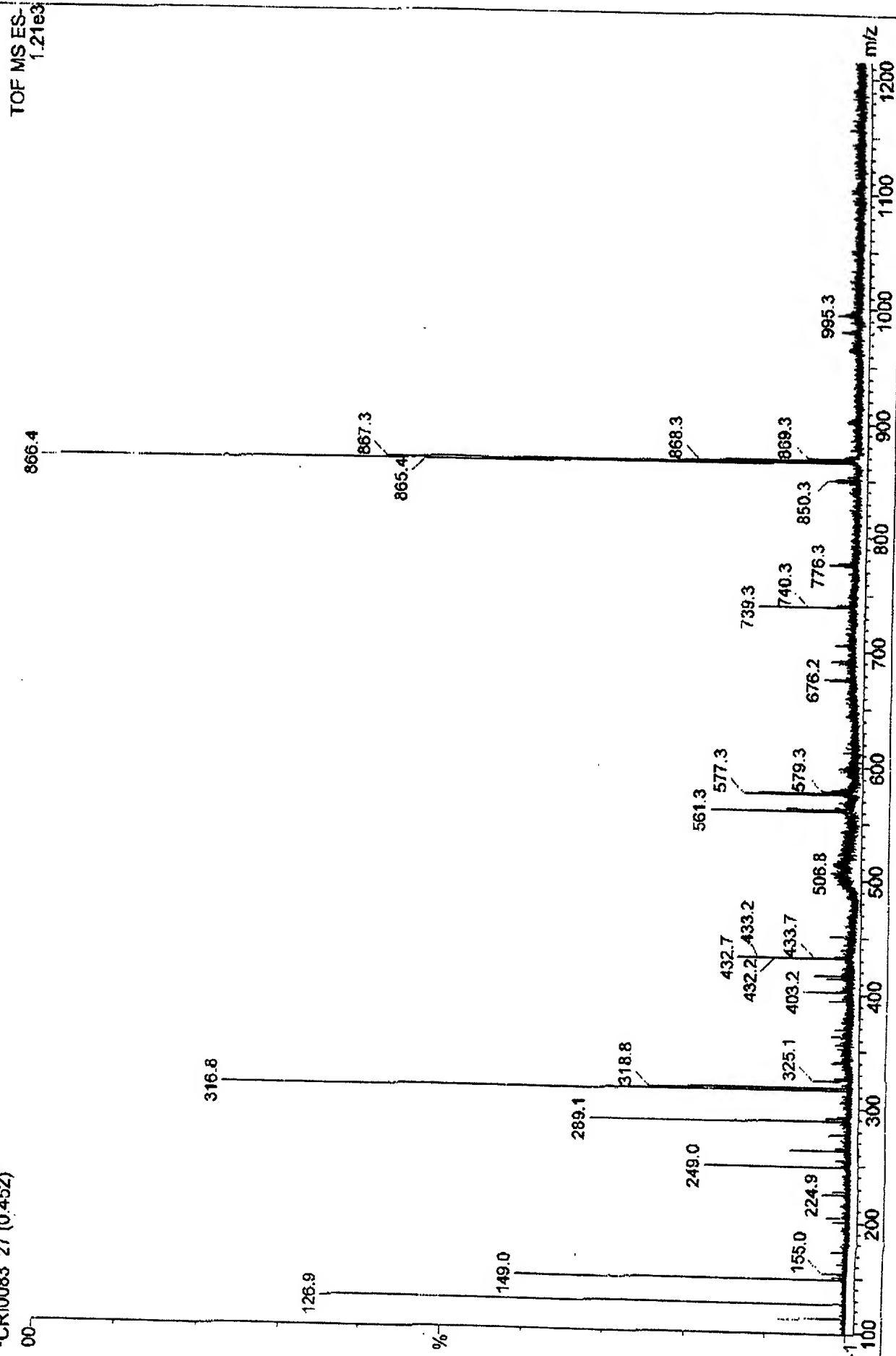


FIGURE 29

P88-16-3  
After overnight  
Pulse Sequence: s2pul

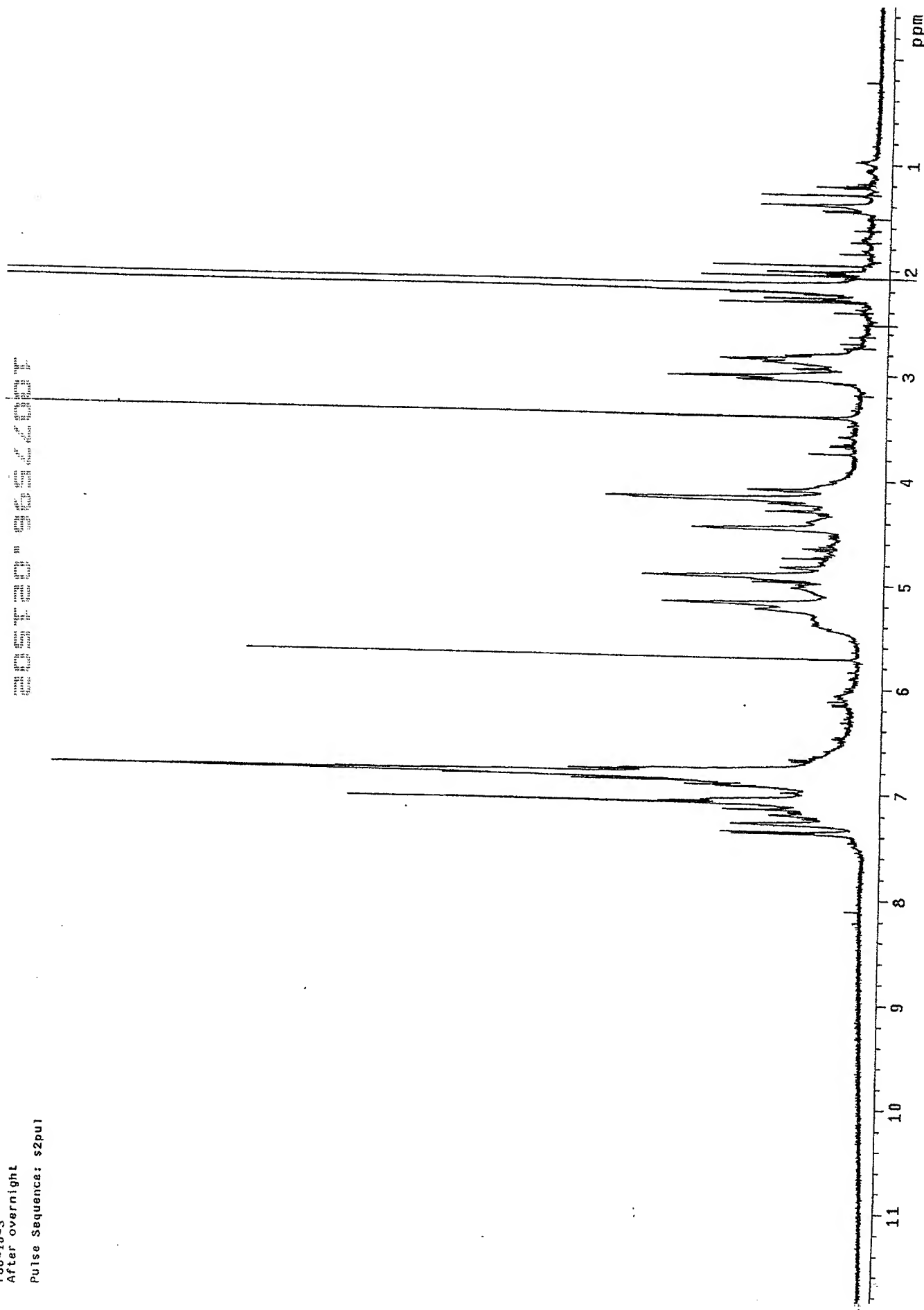


FIGURE 30

P88-22-11

Pulse Sequence: s2pul

Solvent: CDCl<sub>3</sub>

Temp. 25.0 C / 298.1 K

INOVA-500 "europa"

Relax. delay 1.000 sec

Pulse 54.0 degrees

Acq. time 3.668 sec

Width 4467.0 Hz

32 repetitions

OBSERVE H1, 499.7381570 MHz

DATA PROCESSING

FT size 65536

Total time 2 min, 29 sec

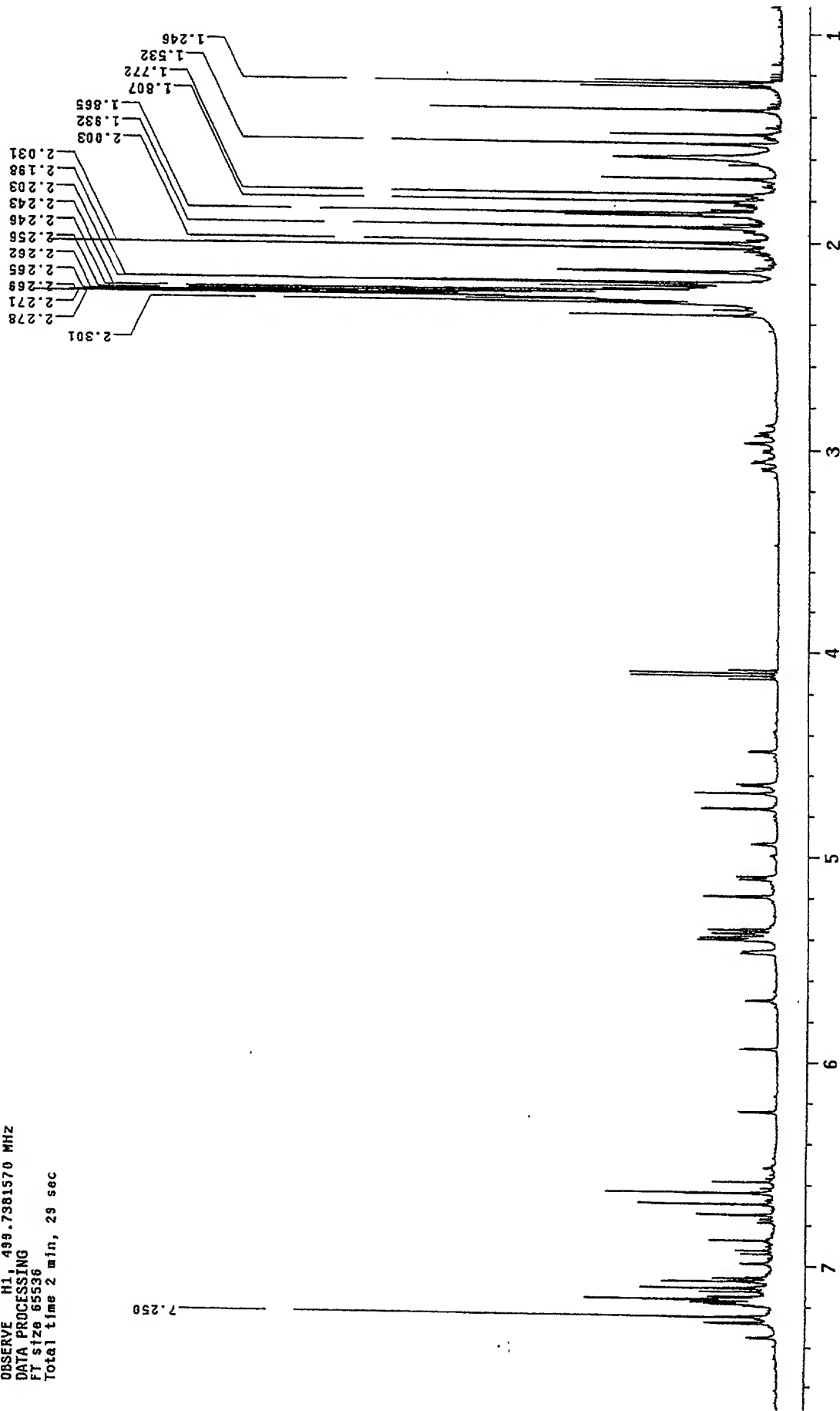


FIGURE 31

P88\_22\_11

Pulse Sequence: szpu1

Solvent: CDCl<sub>3</sub>

Temp. 25.0 C / 298.1 K

User: 1-14-87

INOVA-500 "neuropg"

Relax. delay 1.500 sec

Pulse 54.0 degrees

Acq. time 1.423 sec

Width 23021.6 Hz

9424 repetitions

OBSERVE C13, 125.6592597 MHz

DECOUPLE H1, 499.7406365 MHz

Power 37 dB

on during acquisition

off during delay

WALTZ-16 modulated

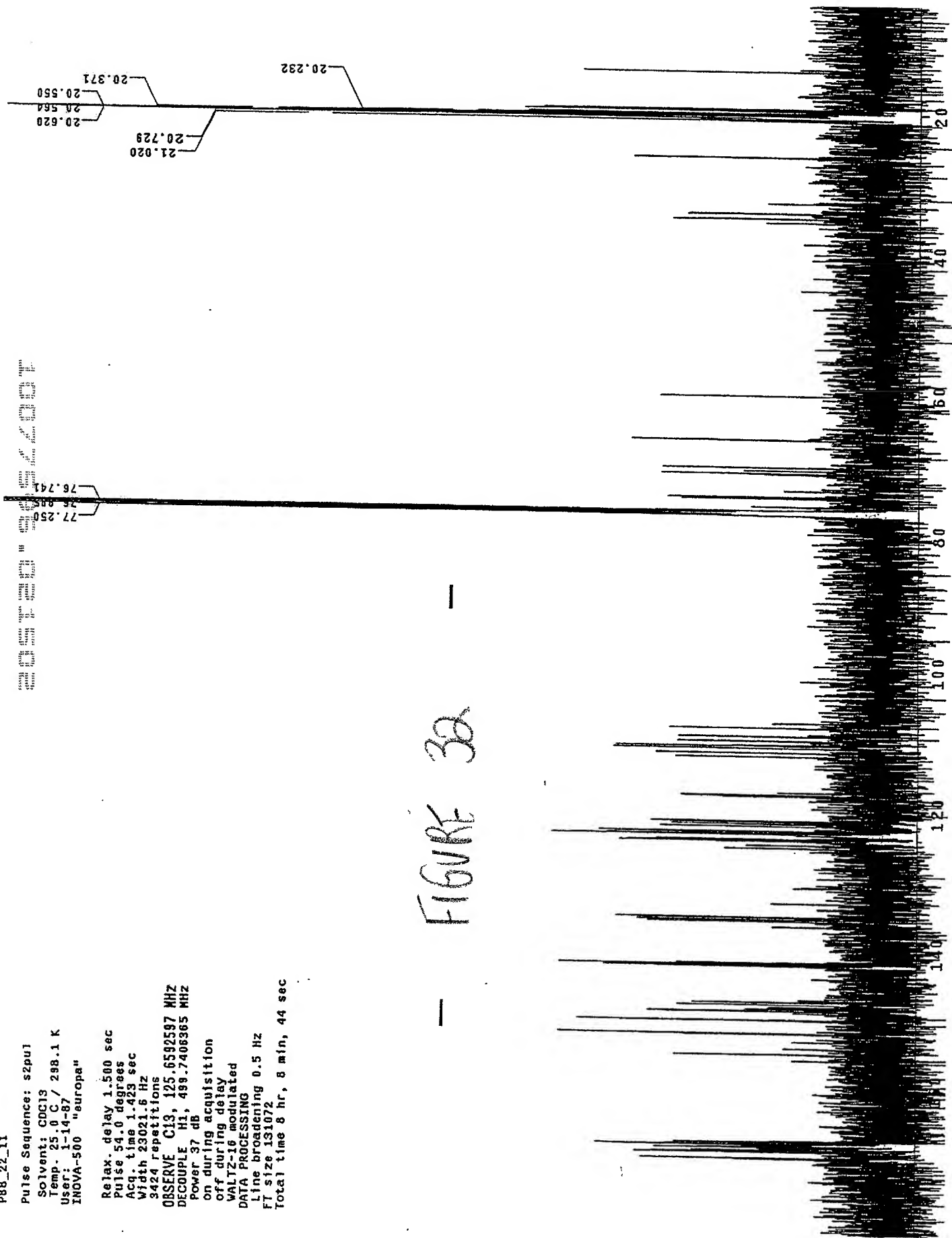
DATA PROCESSING

Line broadening 0.5 Hz

FI size 131072

Total time 8 hr, 8 min, 44 sec

FIGURE 32





Pulse Sequence: CIGAR  
 Solvent: CDCl3  
 Temp. 25.0 C / 298.1 K  
 User: 1-14-87  
 INOVA-500 "europa"

Relax. delay 1.000 sec  
 Acq. time 0.229 sec  
 Width 4467.0 Hz  
 2D Width 23021.6 Hz  
 32 repetitions  
 256 increments  
 OBSERVE W1, 499.7381570 MHz  
 DATA PROCESSING  
 Gauss apodization 0.115 sec  
 Sine bell 0.115 sec  
 F1 DATA PROCESSING  
 Gauss apodization 0.011 sec  
 Sine bell 0.007 sec  
 FT size 2048 x 4096  
 Total time 3 hr, 8 min, 41 sec

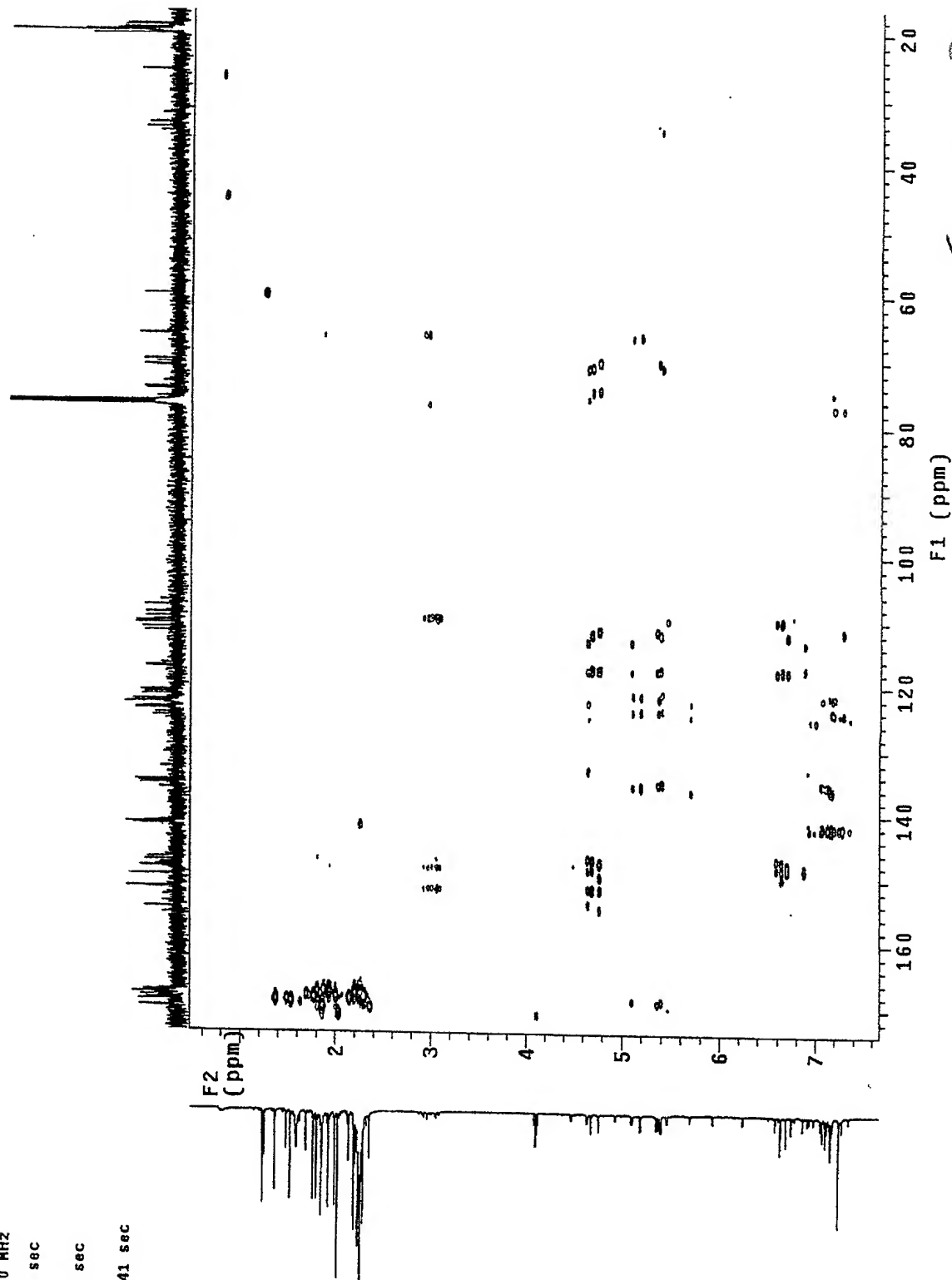


FIGURE 33

Solvent: CDCl<sub>3</sub>  
Temp. 25.0 C / 298.1 K  
User: 1-14-87  
INOVA-500 "europa"

```

Relax. delay 1.000 sec
Acq. time 0.229 sec
Width 4467.0 Hz
2D Width 23021.6 Hz
32 repetitions
255 increments
OBSERVE_H1 499.7381570 MHz
DATA PROCESSING
Gauss apodization 0.115 sec
Sine bell 0.115 sec
F1 DATA PROCESSING
Gauss apodization 0.011 sec
Sine bell 0.007 sec
F1 size 2048 x 4096
Total time 3 hr, 8 min, 41 sec

```

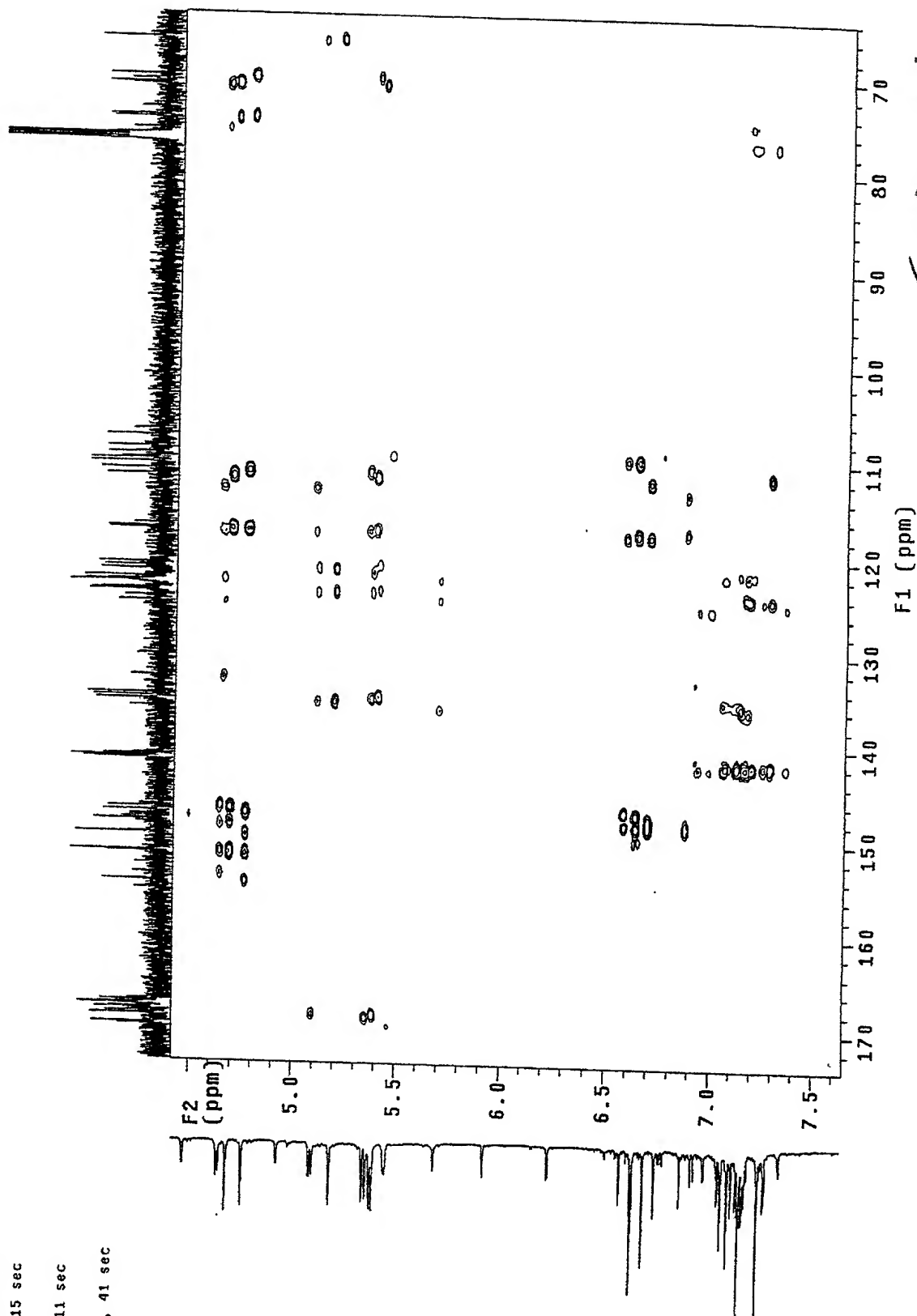
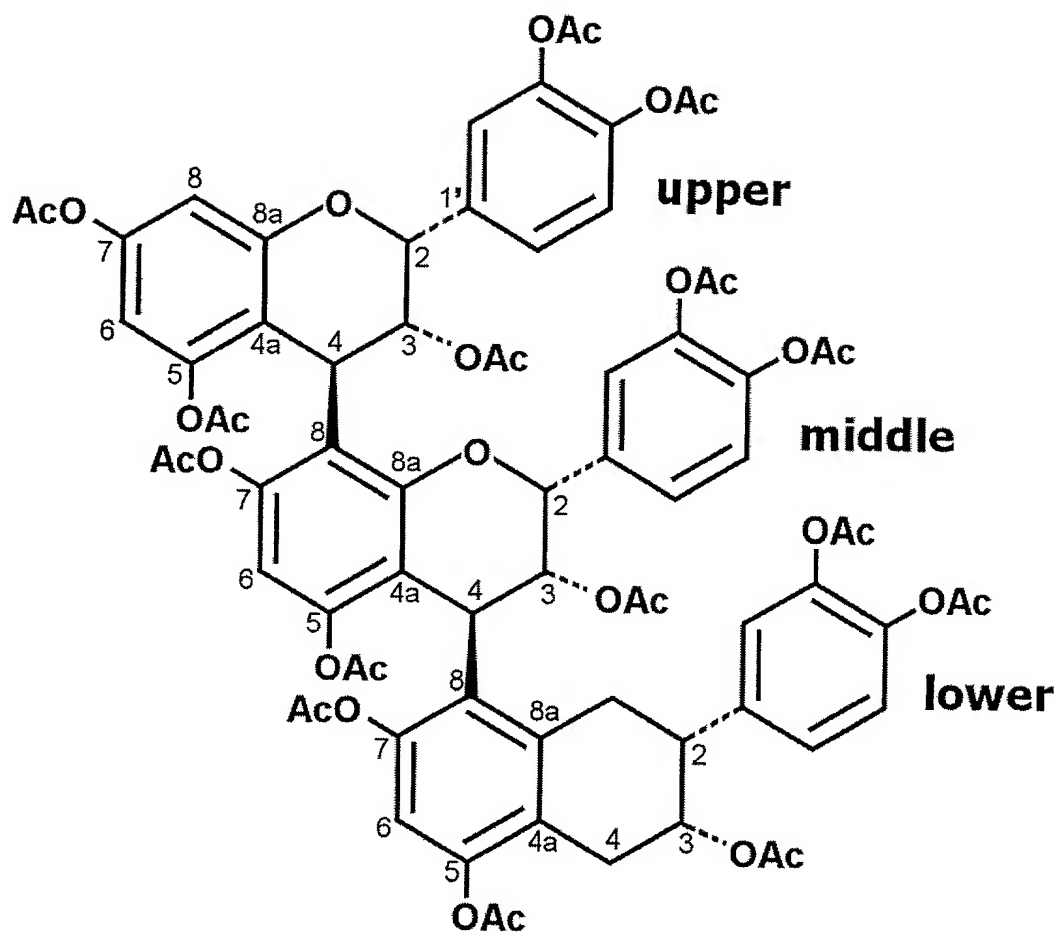
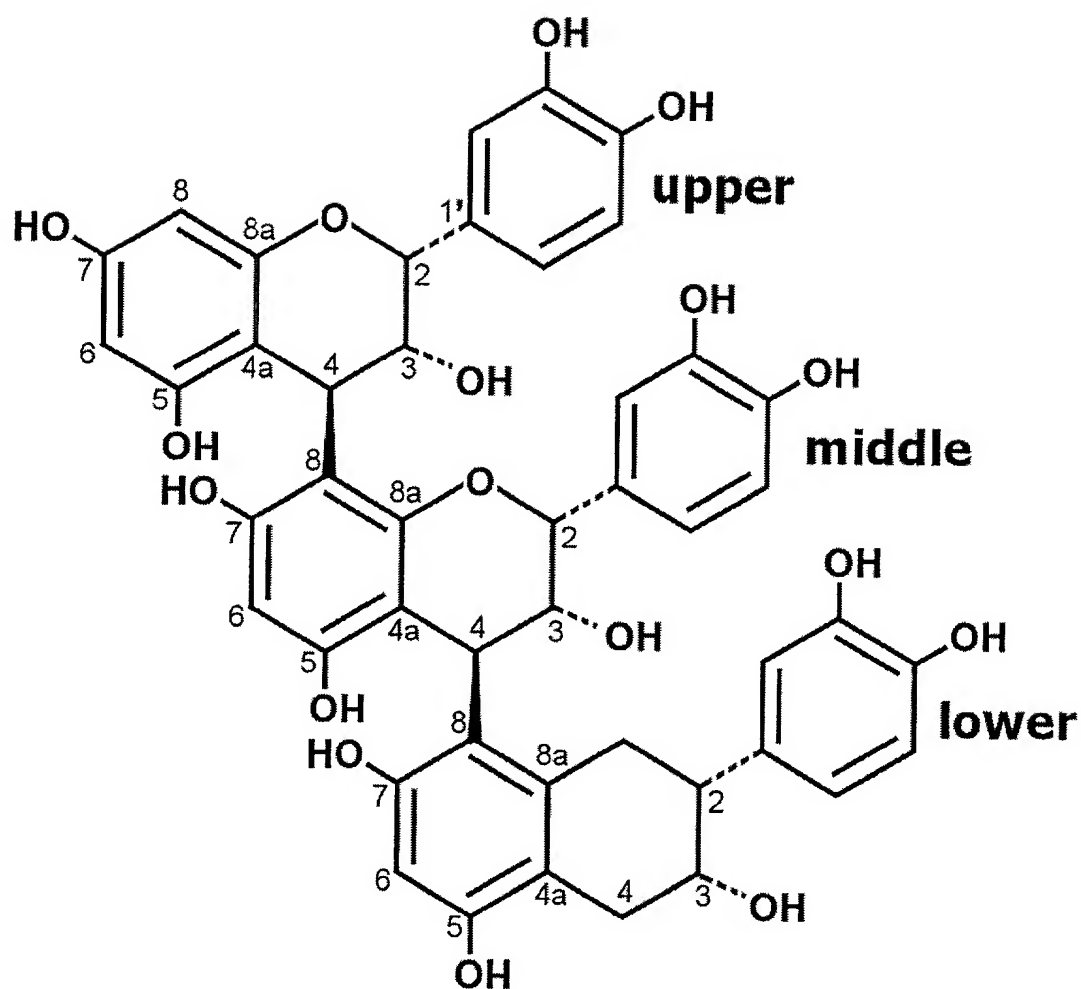


FIGURE 34



— FIGURE 35 —



— FIGURE 36 —

# 7 Days Thioflavin-T Assay

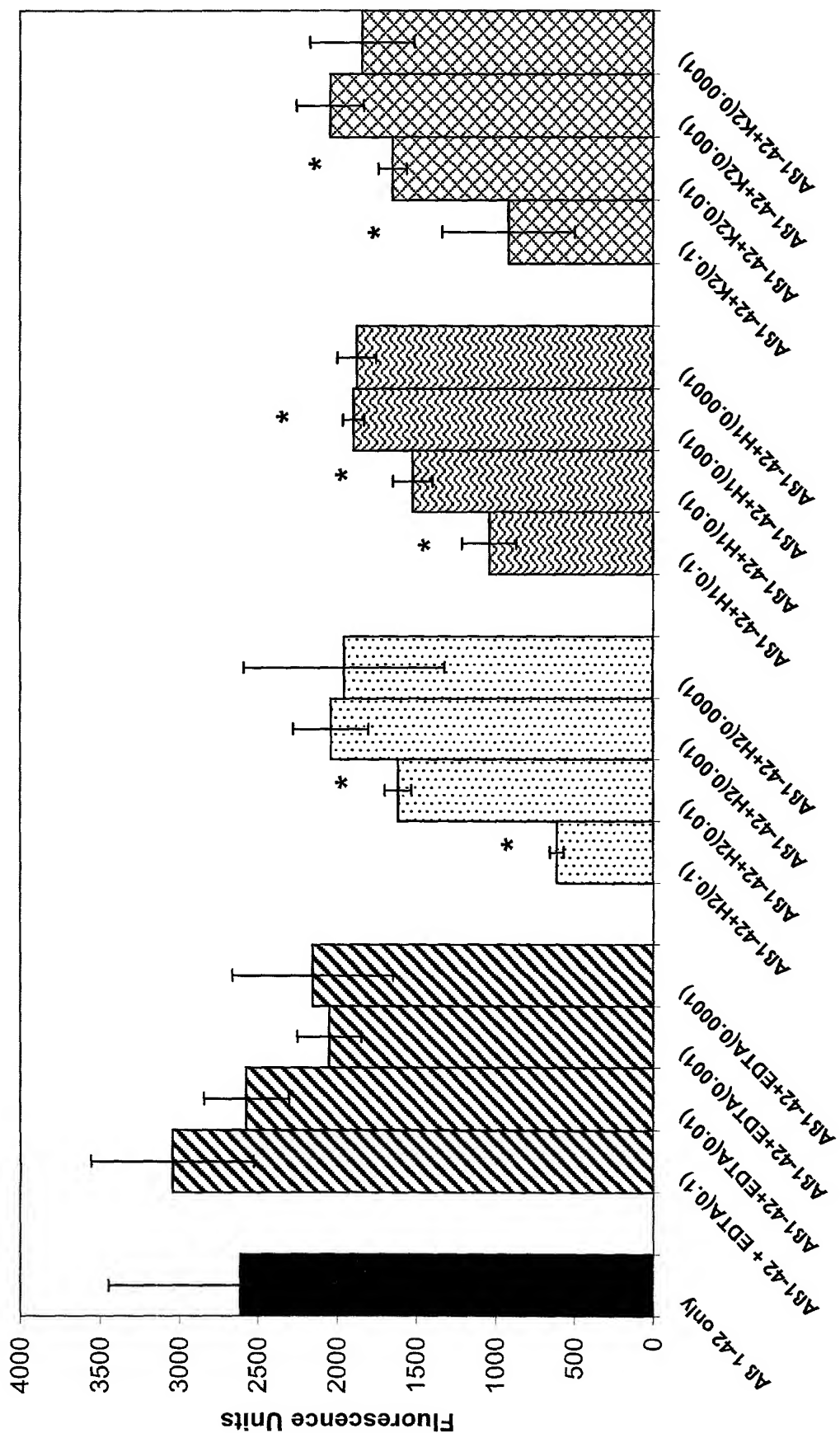
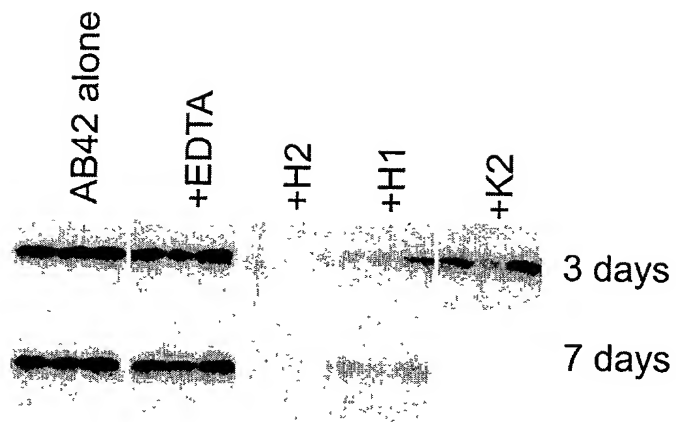
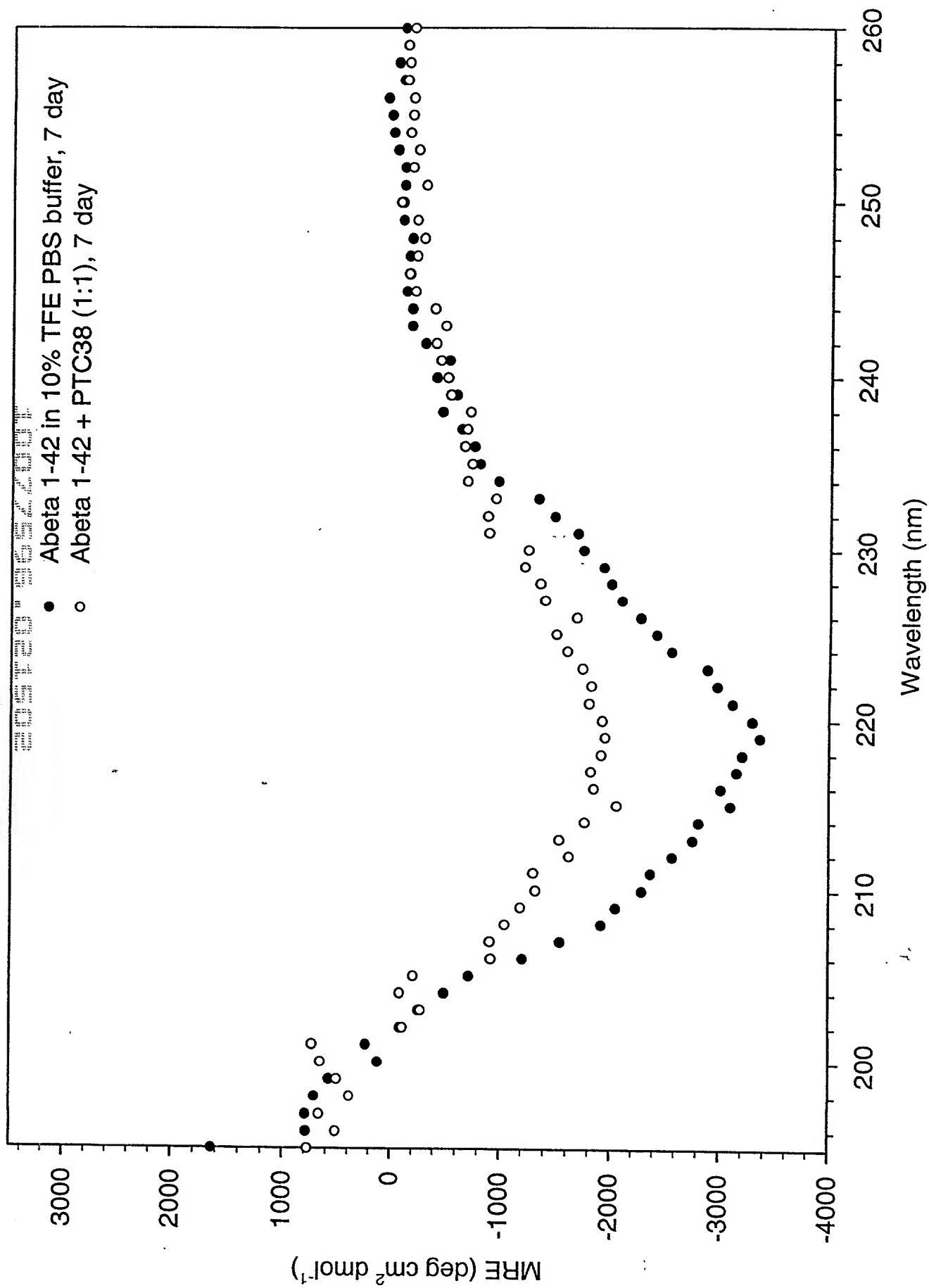


FIGURE 37



— FIGURE 38 —



— FIGURE 39 —

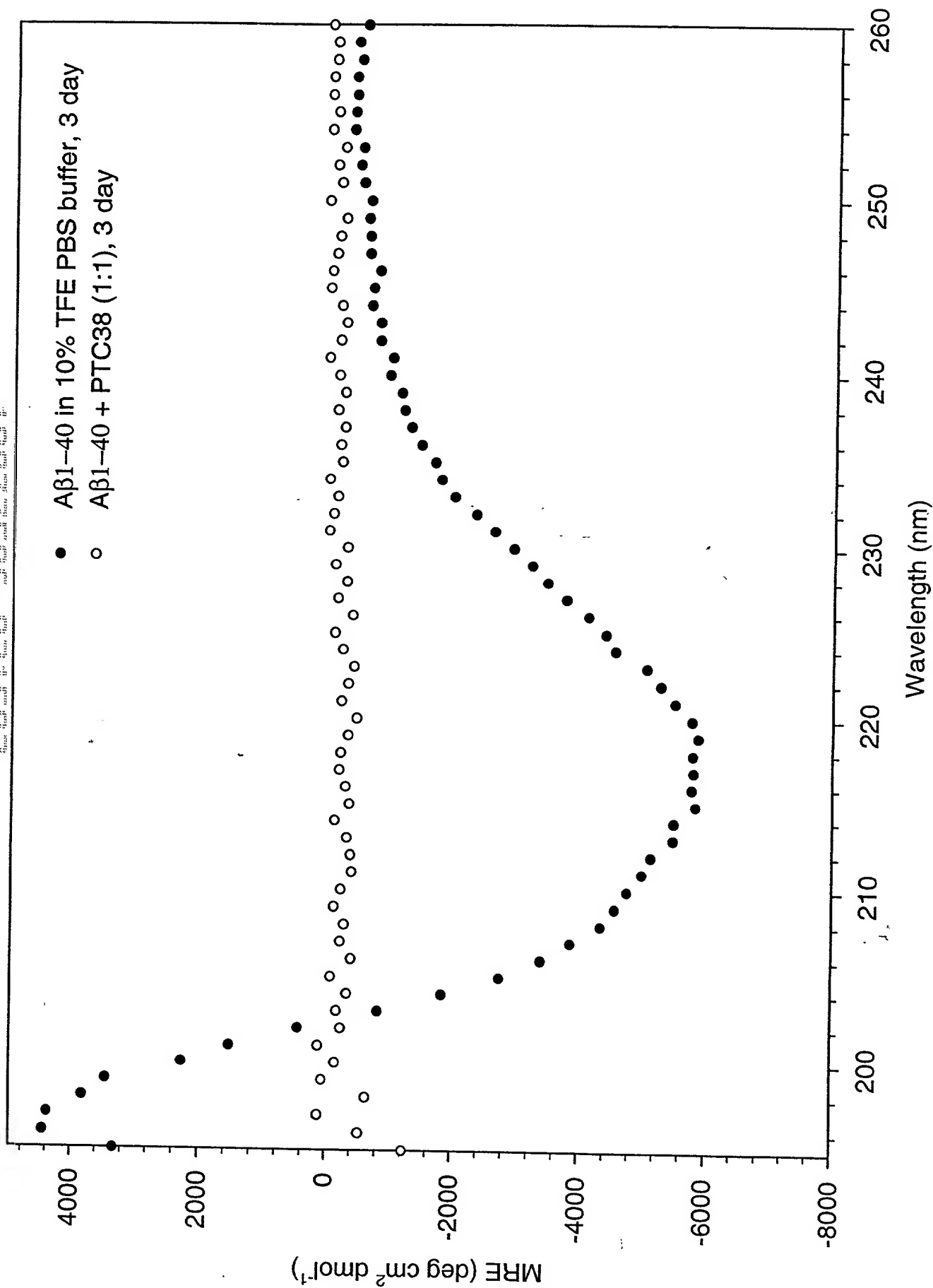


FIGURE 40



## 7 Days Thioflavin-T Assay

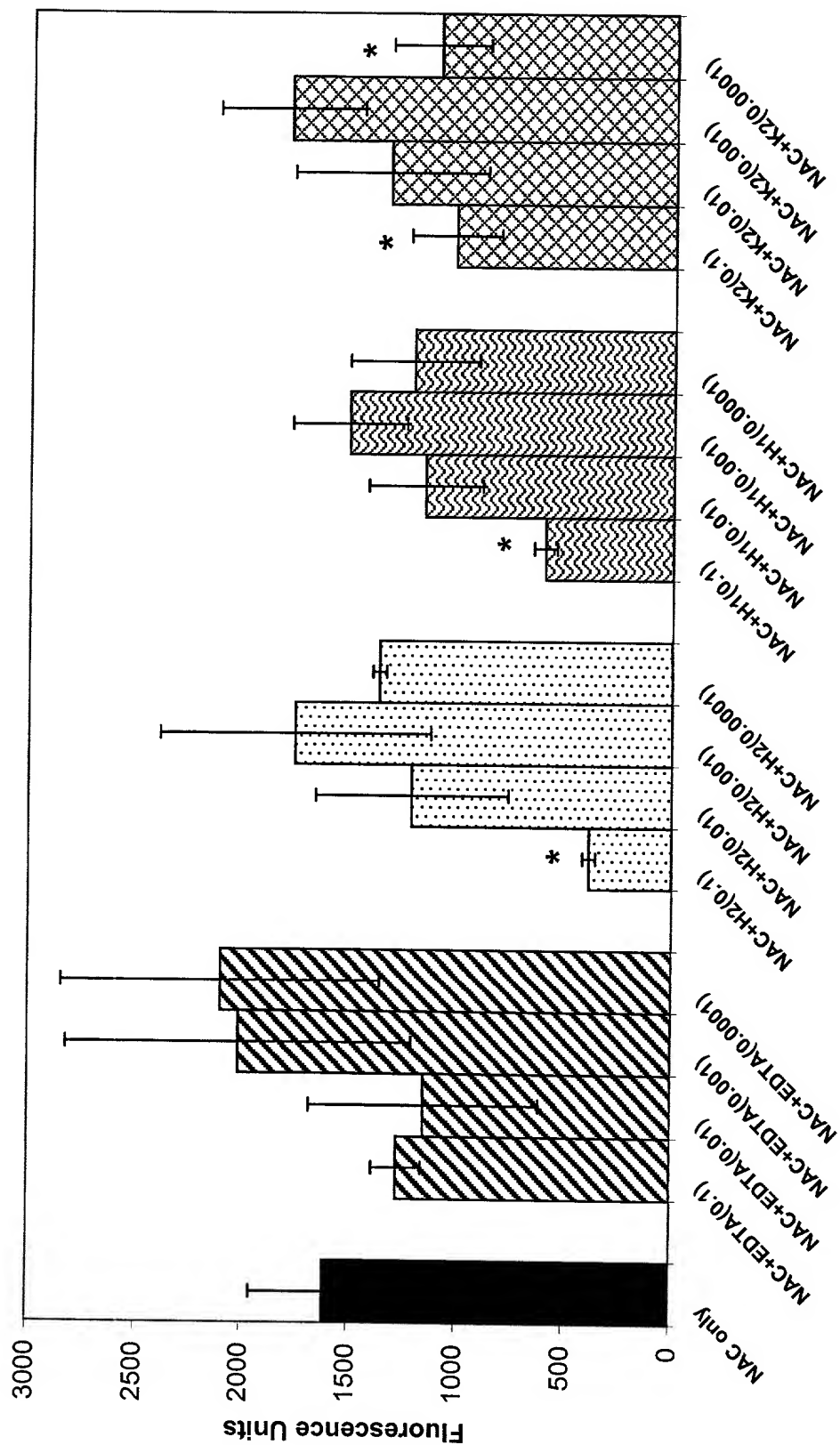


FIGURE 41

## 7 Days Thioflavin-T Assay

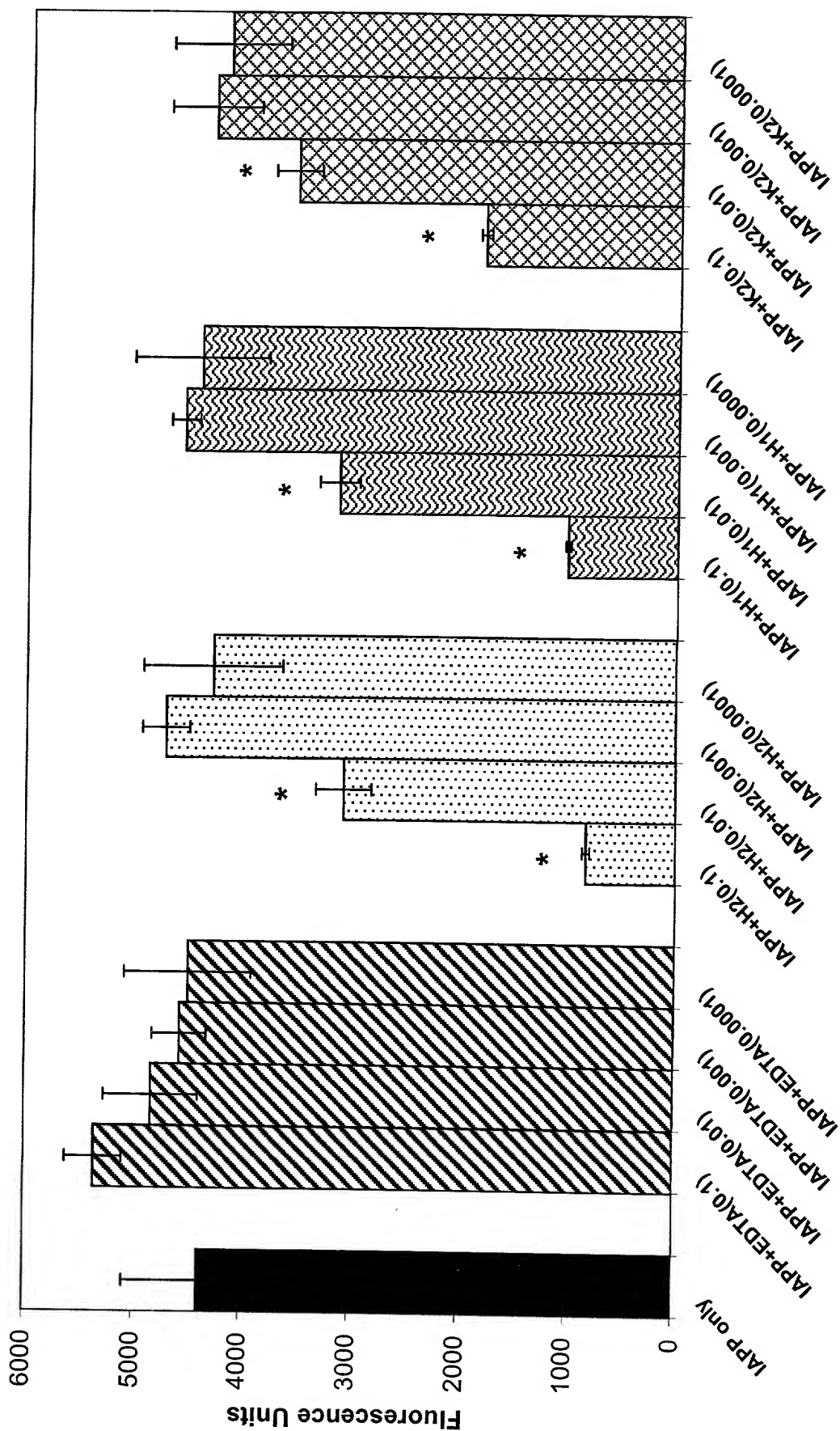
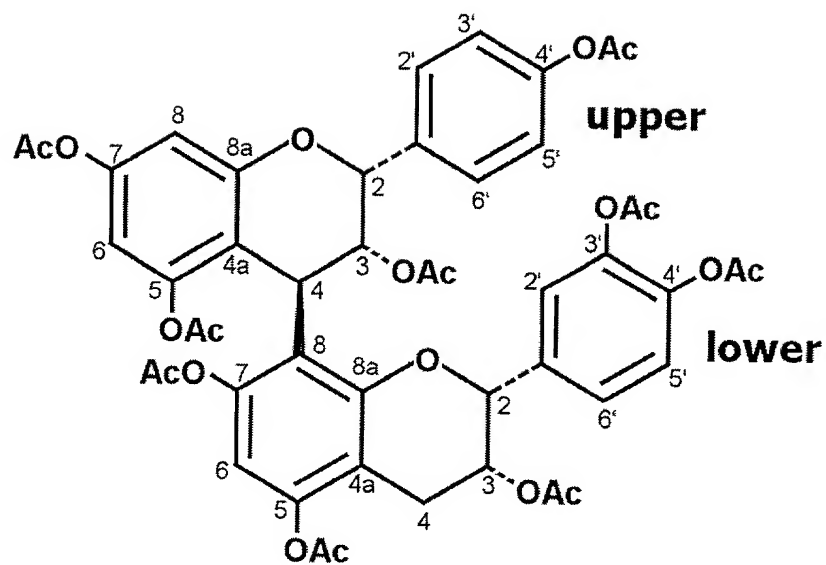
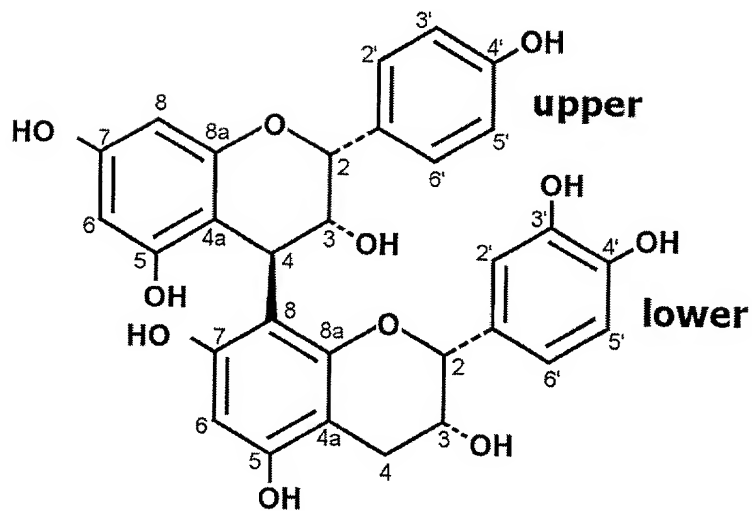


FIGURE 47



**FIGURE 43**



**FIGURE 44**

P88-27-40 100 ng INJECTED  
CFCRI0087 28 (0.467)

TOF MS ES-  
1.09e4

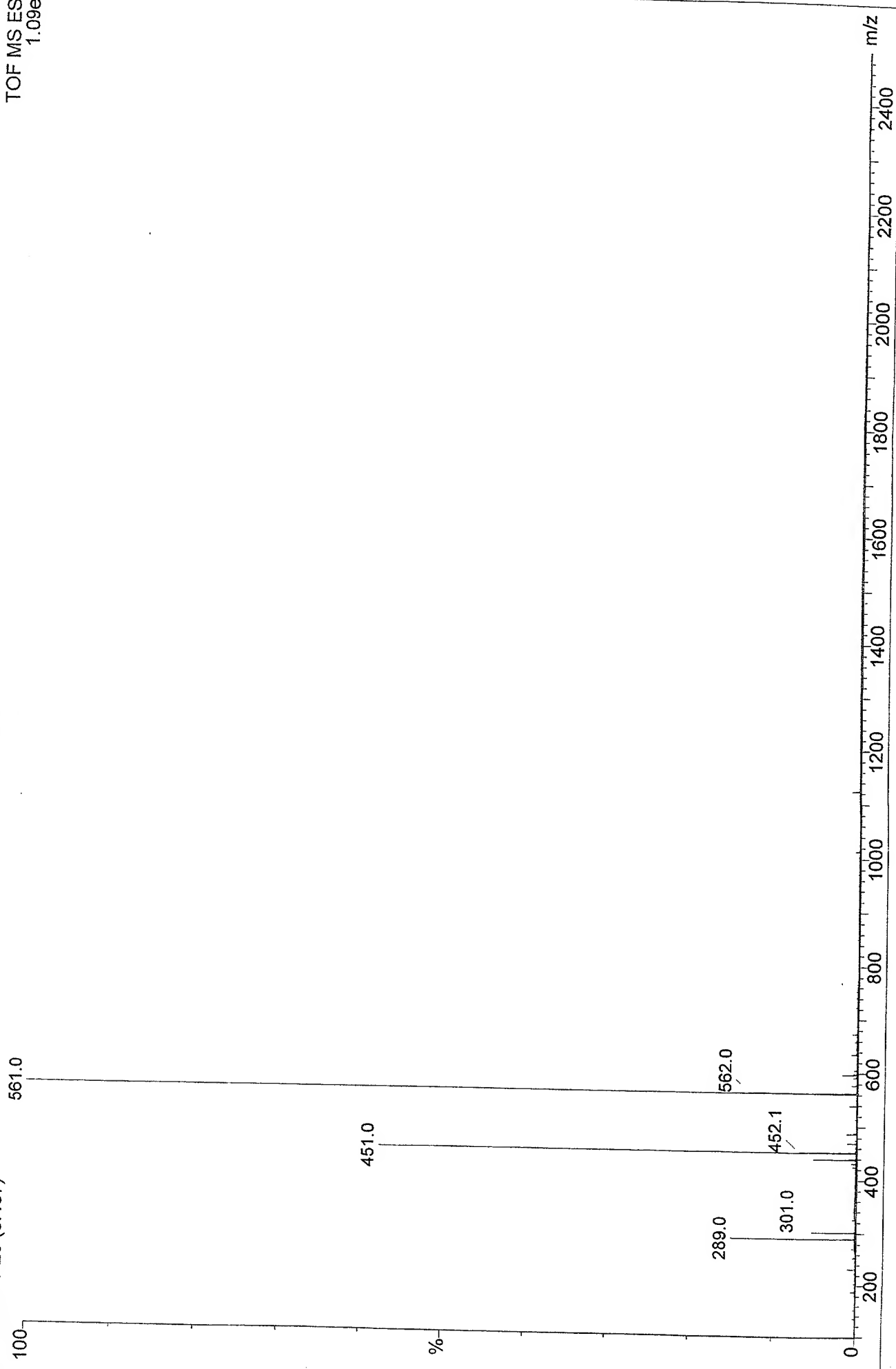
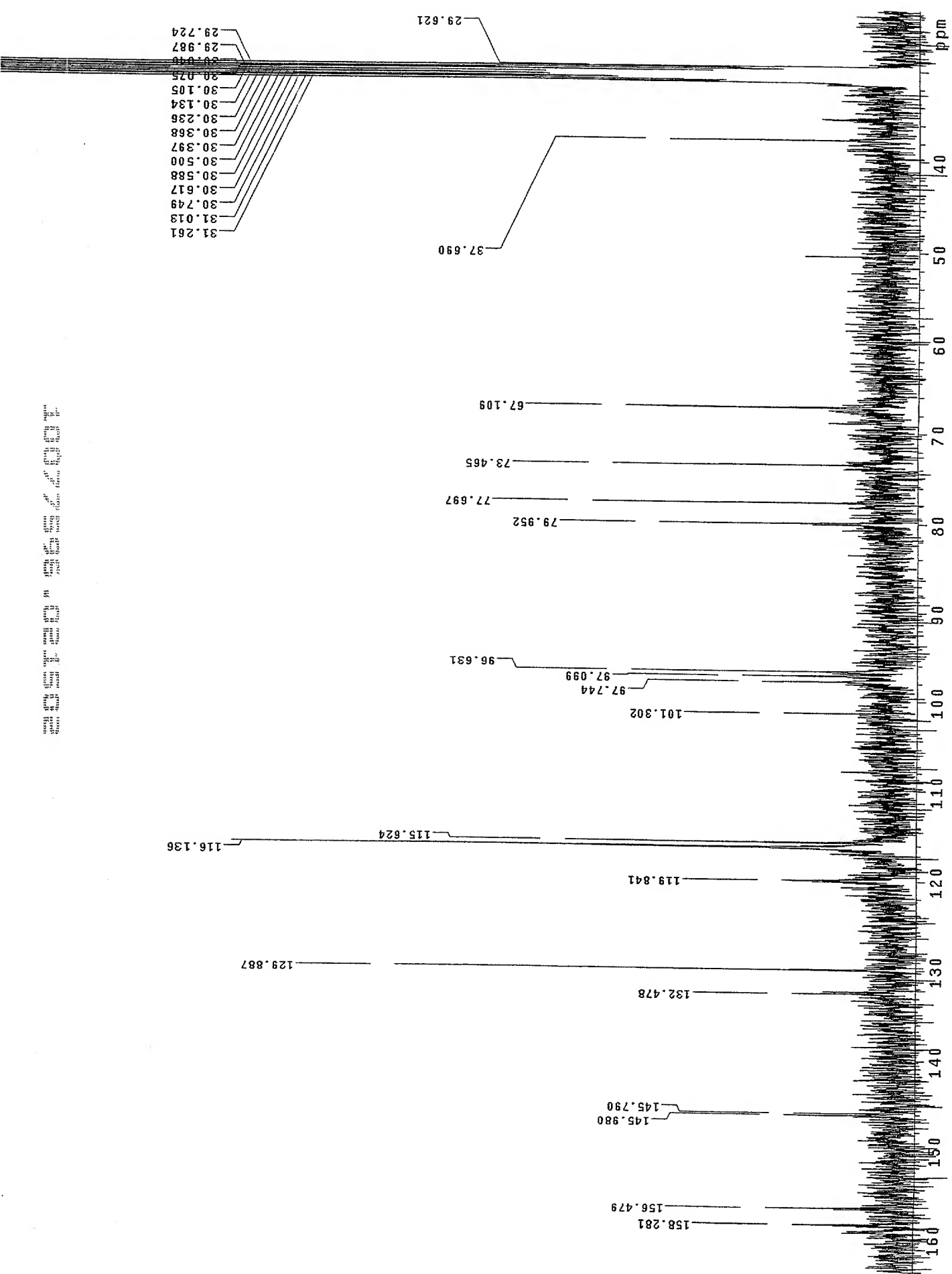
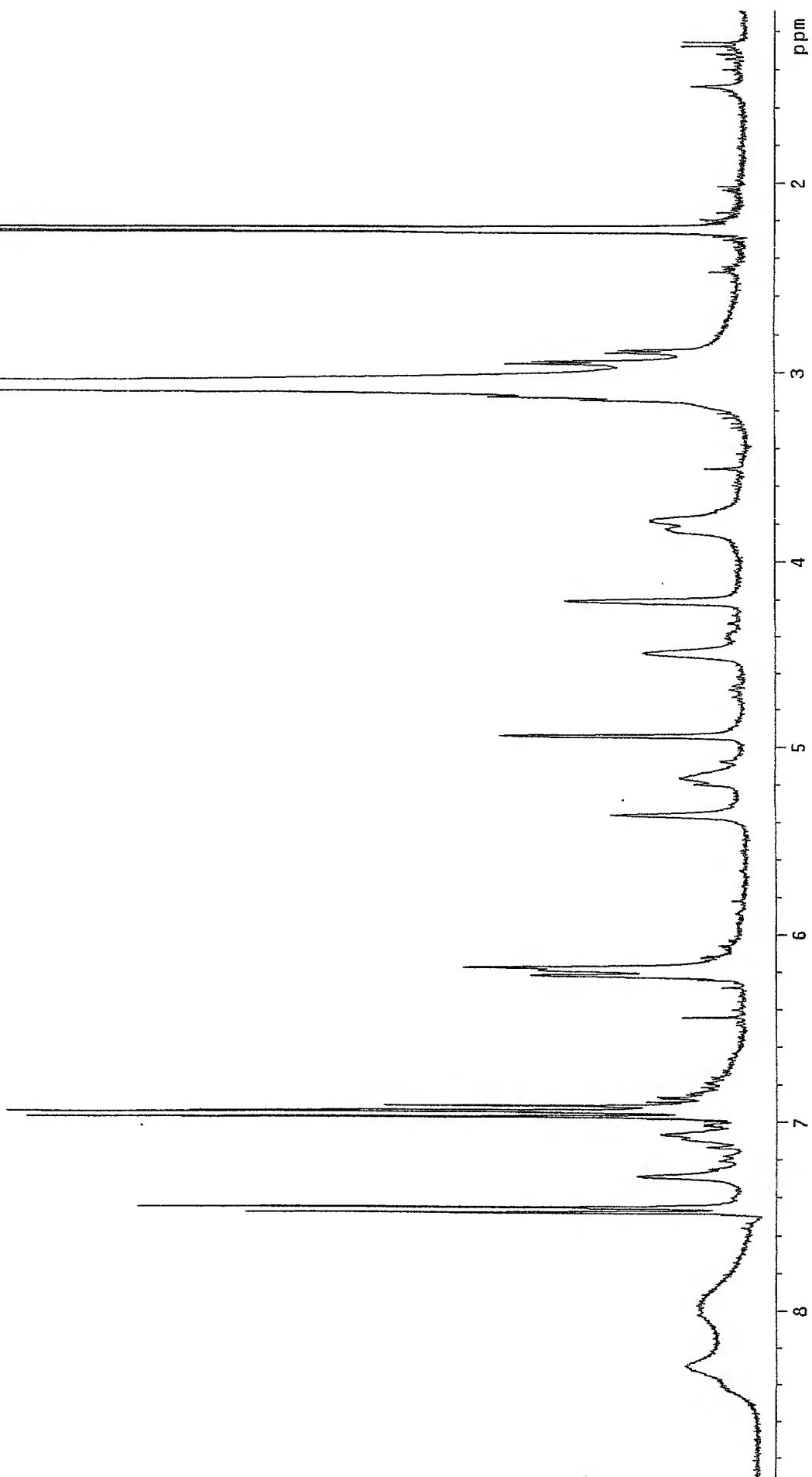


FIGURE 45

FIGURE 46



100% TMS, CDCl<sub>3</sub>, 100 MHz, 25°C



47  
34913  
FIGURE 47

Pulse Sequence: s2pul

Solvent: CDCl<sub>3</sub>

Temp. 25.0 C / 298.1 K

temp. 23.0 °C / 230  
INOVA-500 "europa"

Relax. delay 1.000 sec

Pulse 54.0 degrees

Acq. time 3.185 sec

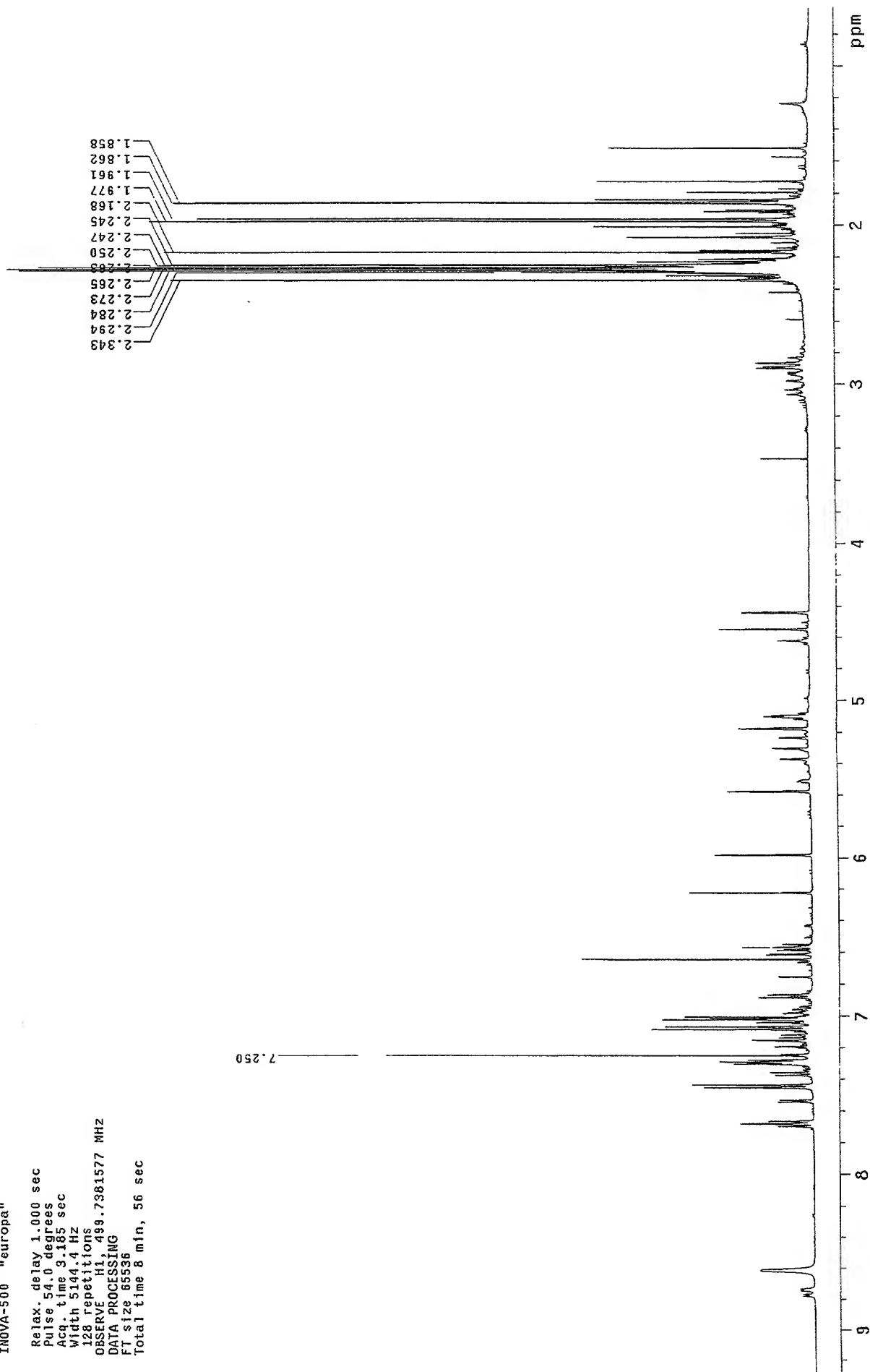
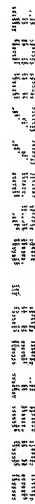
Width 5144.4 Hz  
128 repetitions

128 Repetitions  
OBSERVE H1, 499.7381577 MHZ

## DATA PROCESSING

FT size 65536

Total time 8 min, 56 sec



95

P88-27-40a

Pulse Sequence: s2pul

Solvent: CDCl<sub>3</sub>

Temp. 25.0 C / 298.1 K

User: 1-14-87

INOVA-500 "europa"

Relax. delay 3.000 sec

Pulse 54.0 degrees

Acq. time 1.393 sec

Width 23523.4 Hz

16592 repetitions

OBSERVE C13, 125.6592608 MHz

DECOUPLE H1, 499.7406365 MHz

Power 31 dB

on during acquisition

off during delay

WALTZ-16 modulated

DATA PROCESSING

Line broadening 0.5 Hz

FI size 131072

Total time 24 hr, 27 min, 15 sec

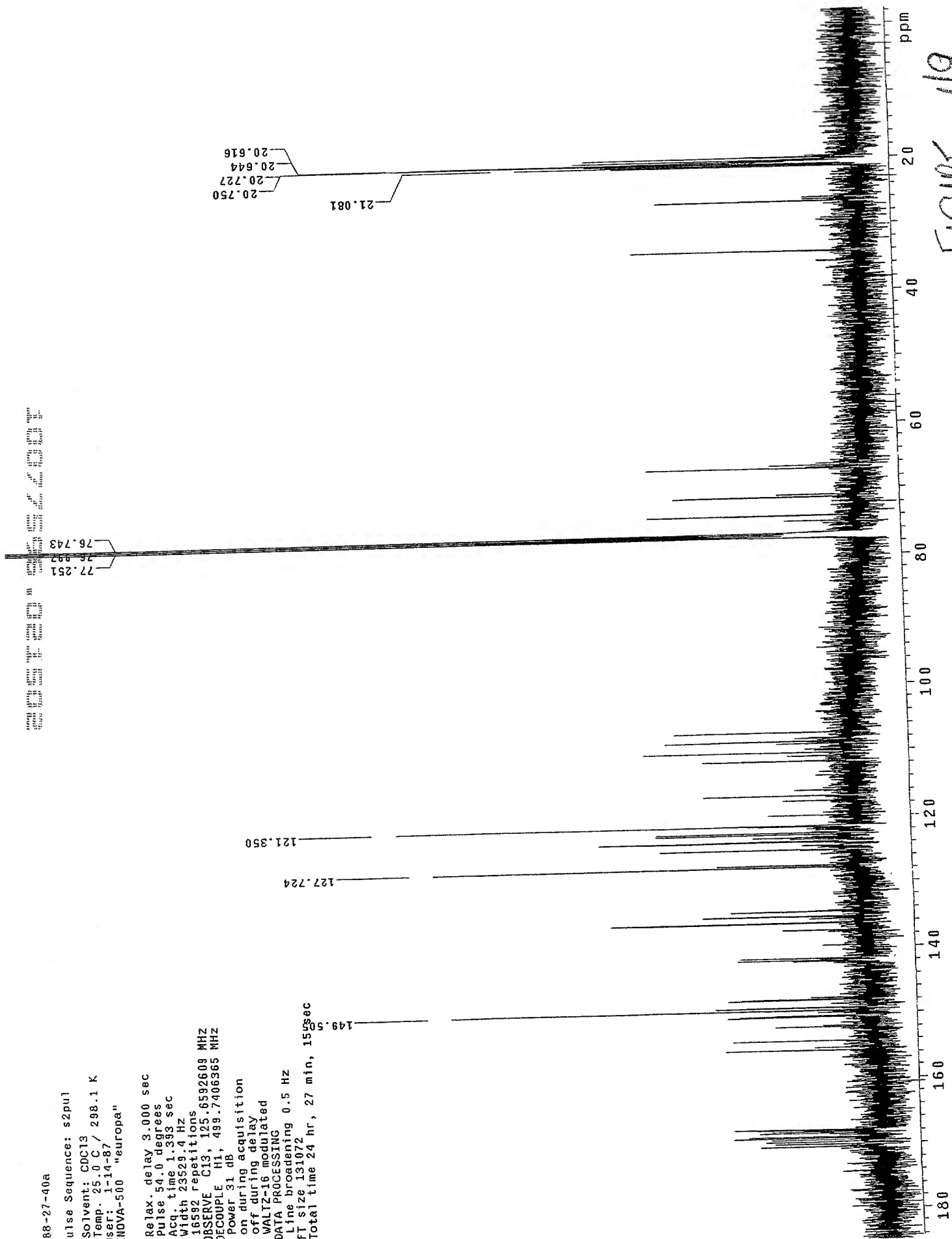


FIGURE 49



Pulse Sequence: CIGAR

Solvent: CDC13  
Temp. 25.0 C / 298.1 K  
User: 1-14-87  
INOVA-500 "europa"

Relax. delay 1.000 sec  
Acq. time 0.199 sec  
Width 5144.4 Hz  
2D Width 23529.4 Hz  
192 repetitions  
256 increments  
OBSERVE H1, 499.7381577 MHz  
DATA PROCESSING  
Gauss apodization 0.100 sec  
Sine bell 0.100 sec  
F1 DATA PROCESSING  
Gauss apodization 0.011 sec  
Sine bell 0.011 sec  
FT size 2048 x 4096  
Total time 18 hr, 23 min, 37 sec

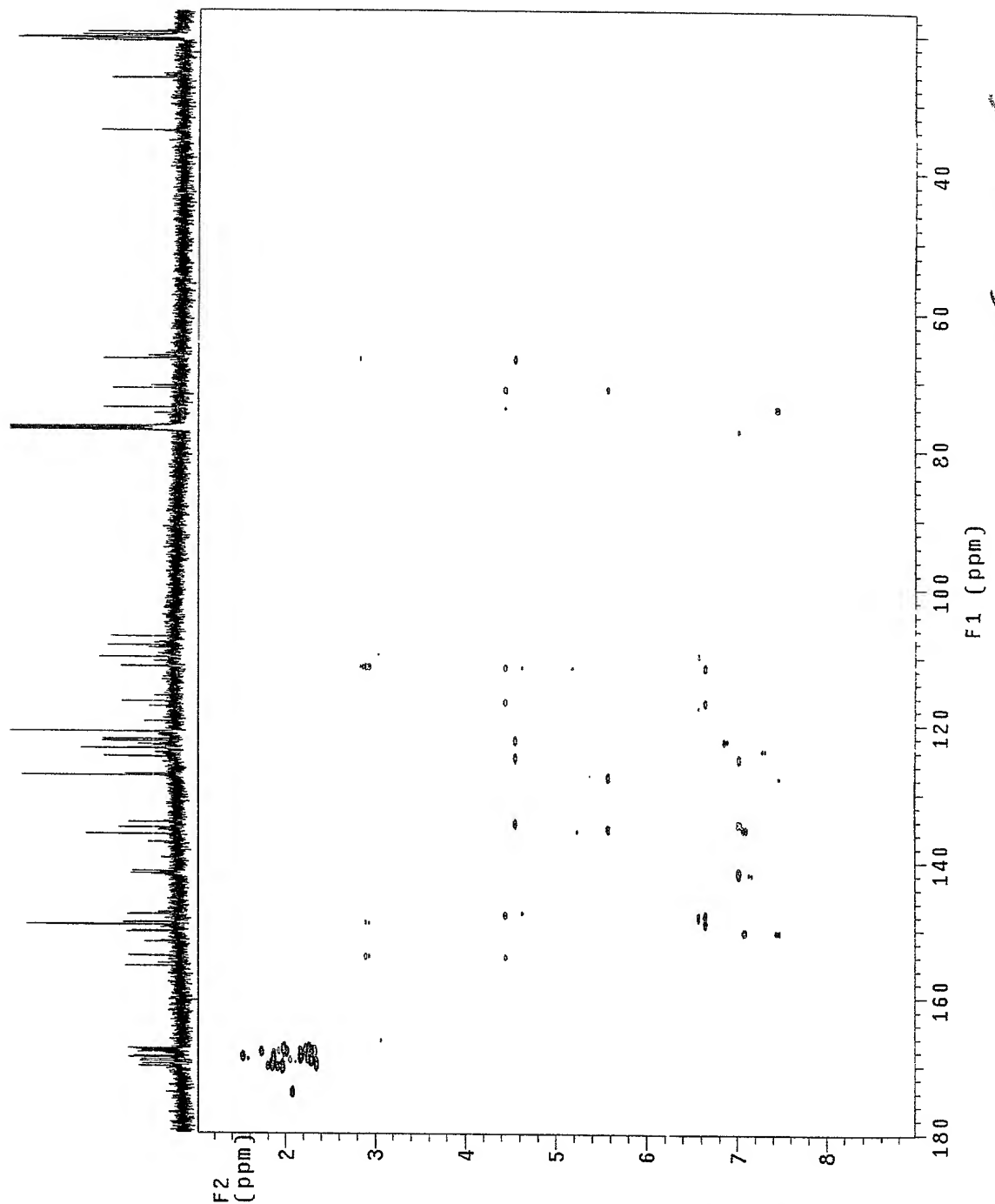


FIGURE 50

P88-27-40a

Pulse Sequence: CIGAR

Solvent: CDC13

Temp.: 25.0 C / 298.1 K

File: P88\_27\_40a\_cigar  
WORKSTATION "ganymede"

PULSE SEQUENCE: CIGAR

Relax. delay 1.000 sec

Acq. time 0.199 sec

Width 5144.4 Hz

2D Width 23529.4 Hz

192 repetitions

256 increments

OBSERVE H1, 499.7381577 MHz

DATA PROCESSING

Gauss apodization 0.100 sec

Sine bell 0.100 sec

F1 DATA PROCESSING

Gauss apodization 0.011 sec

Sine bell 0.007 sec

FT size 2048 x 4096

Total time 18 hr, 23 min, 37 sec

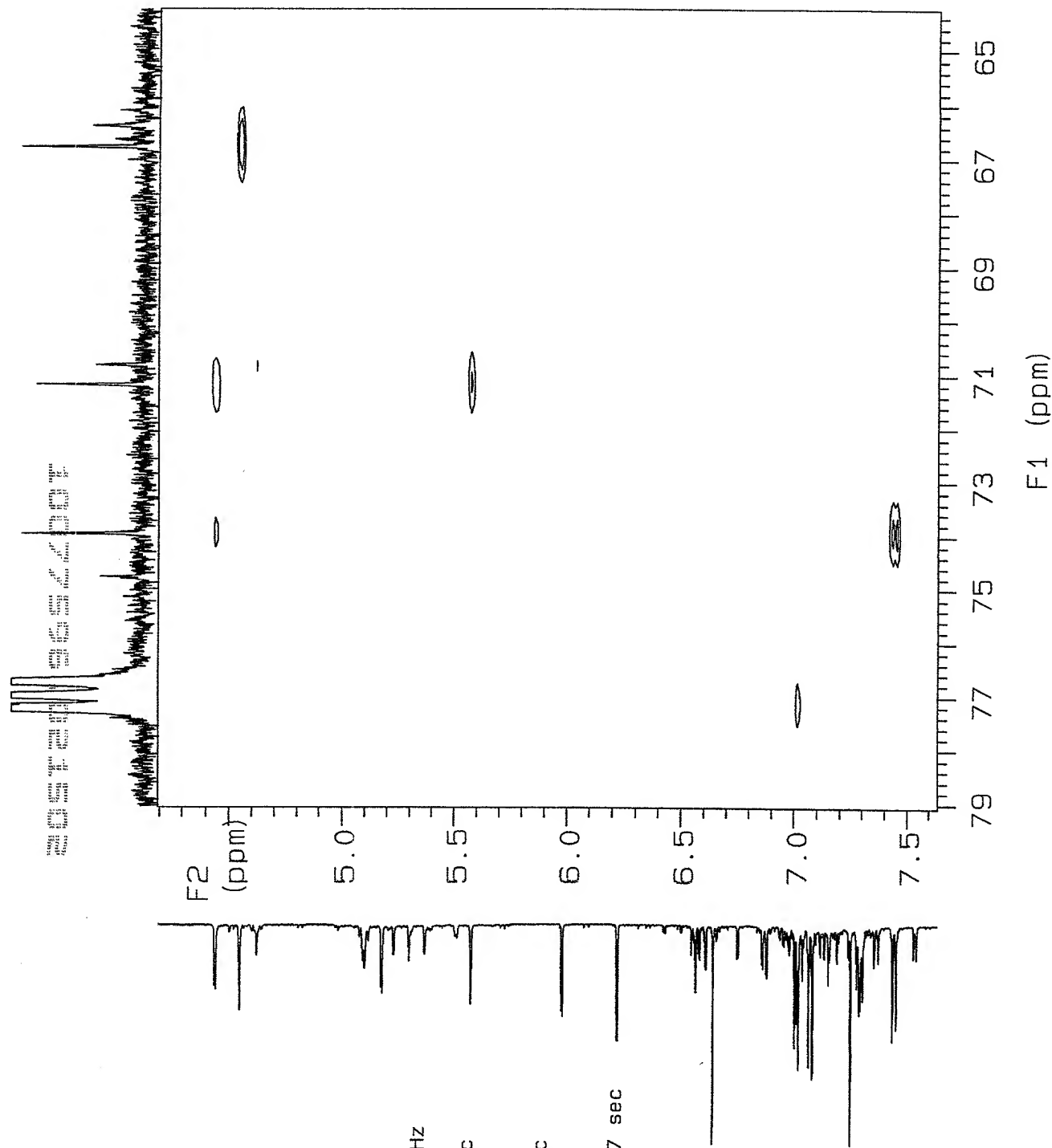


FIGURE 51

P88-27-40a

Pulse Sequence: CIGAR

Solvent: CDC13

Temp. 25.0 C / 298.1 K

File: P88\_27\_40a\_cigar  
WORKSTATION "ganymede"

PULSE SEQUENCE: CIGAR

Relax. delay 1.000 sec

Acq. time 0.199 sec

Width 5144.4 Hz

2D Width 23529.4 Hz

192 repetitions

256 increments

OBSERVE H1, 499.7381577 MHz

DATA PROCESSING

Gauss apodization 0.100 sec

Sine bell 0.100 sec

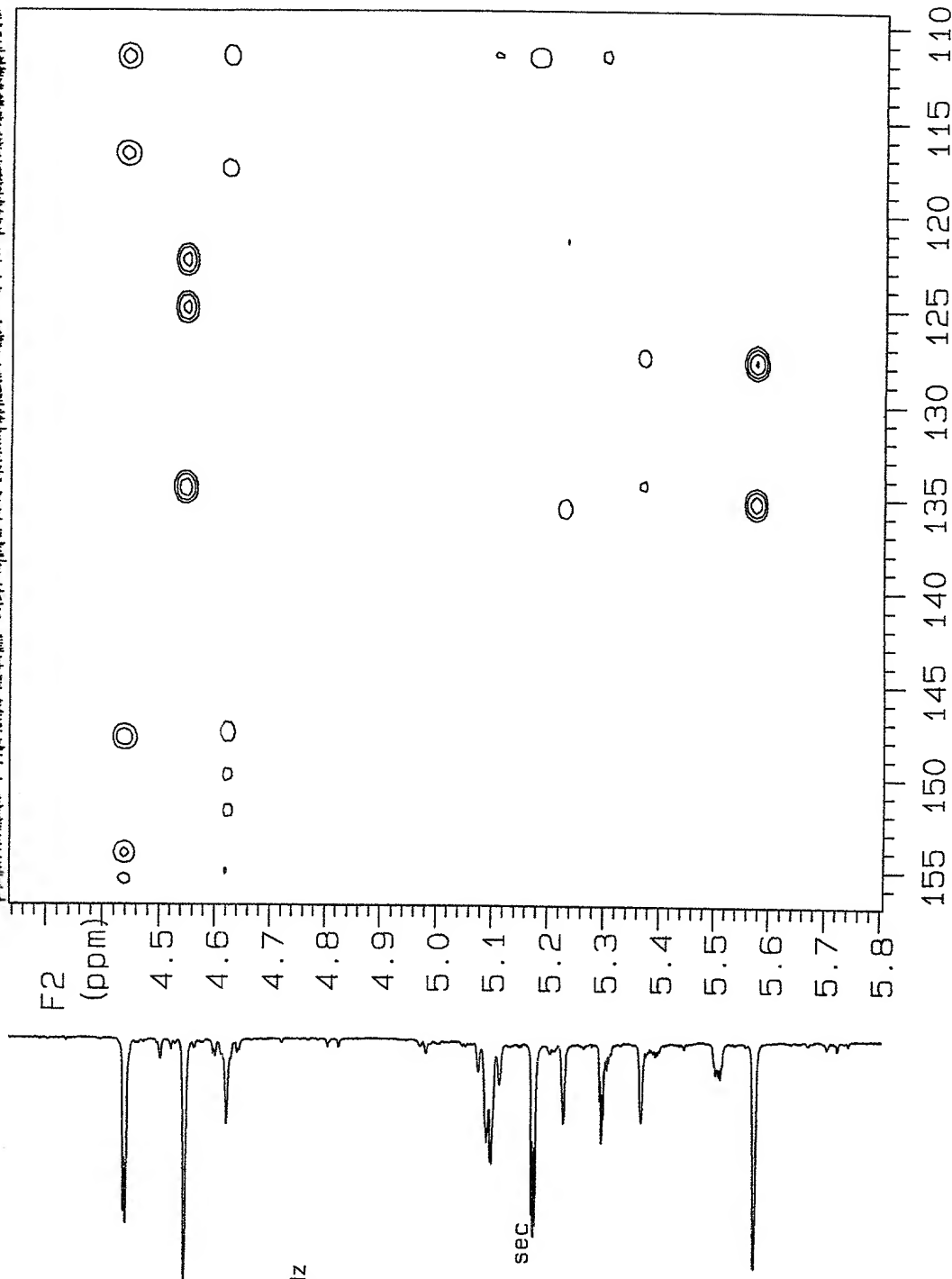
F1 DATA PROCESSING

Gauss apodization 0.011 sec

Sine bell 0.007 sec

FT size 2048 x 4096

Total time 18 hr, 23 min, 37 sec



F1 (ppm)

— FIGURE 52

P88-27-40a

Pulse Sequence: CIGAR

Solvent: CDCl3  
Temp. 25.0 C / 298.1 K  
File: P88\_27\_40a\_cigar  
WORKSTATION "ganymede"

PULSE SEQUENCE: CIGAR  
Relax. delay 1.000 sec  
Acq. time 0.199 sec  
Width 5144.4 Hz  
2D width 23529.4 Hz  
192 repetitions  
256 increments

OBSERVE H1, 499.7381577 MHz

DATA PROCESSING

Gauss apodization 0.100 sec

Sine bell 0.100 sec

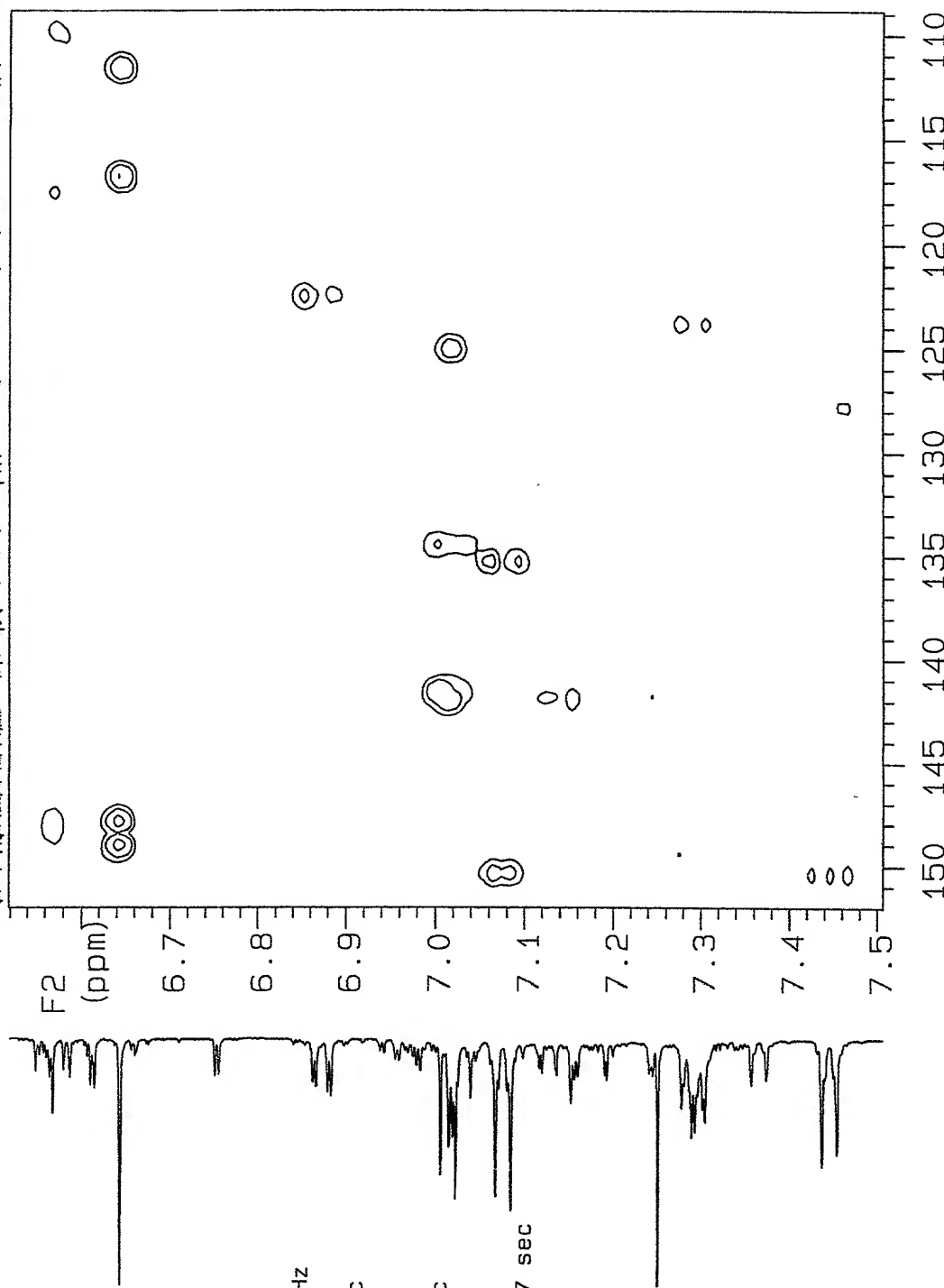
F1 DATA PROCESSING

Gauss apodization 0.011 sec

Sine bell 0.007 sec

FT size 2048 x 4096

Total time 18 hr, 23 min, 37 sec



F1 (ppm)

- F10K 53

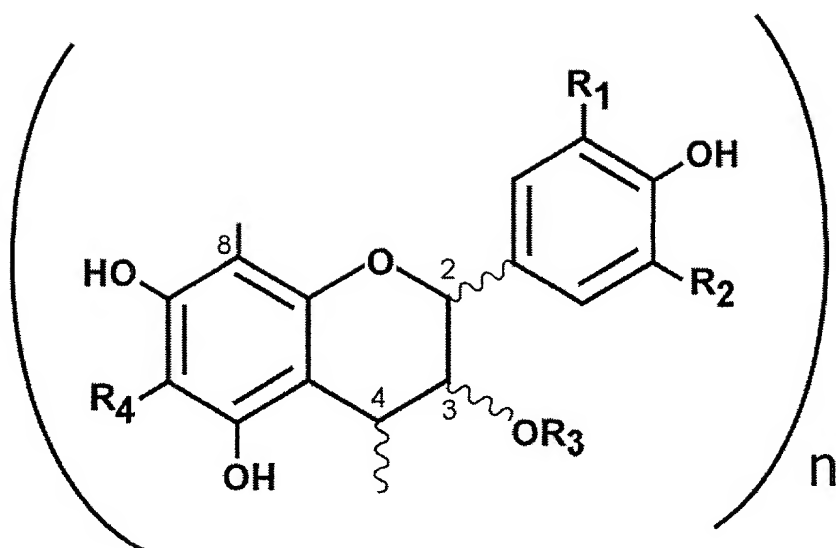


FIGURE 54

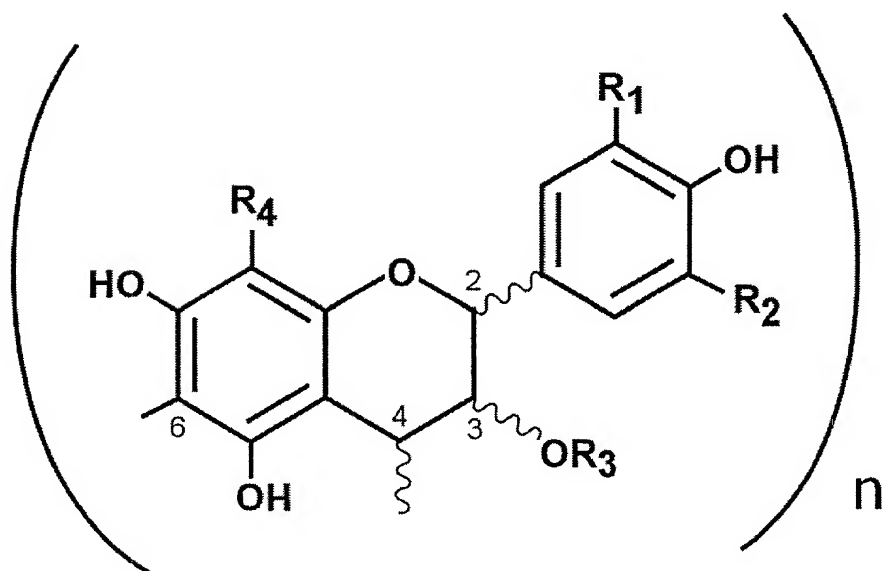


FIGURE 55

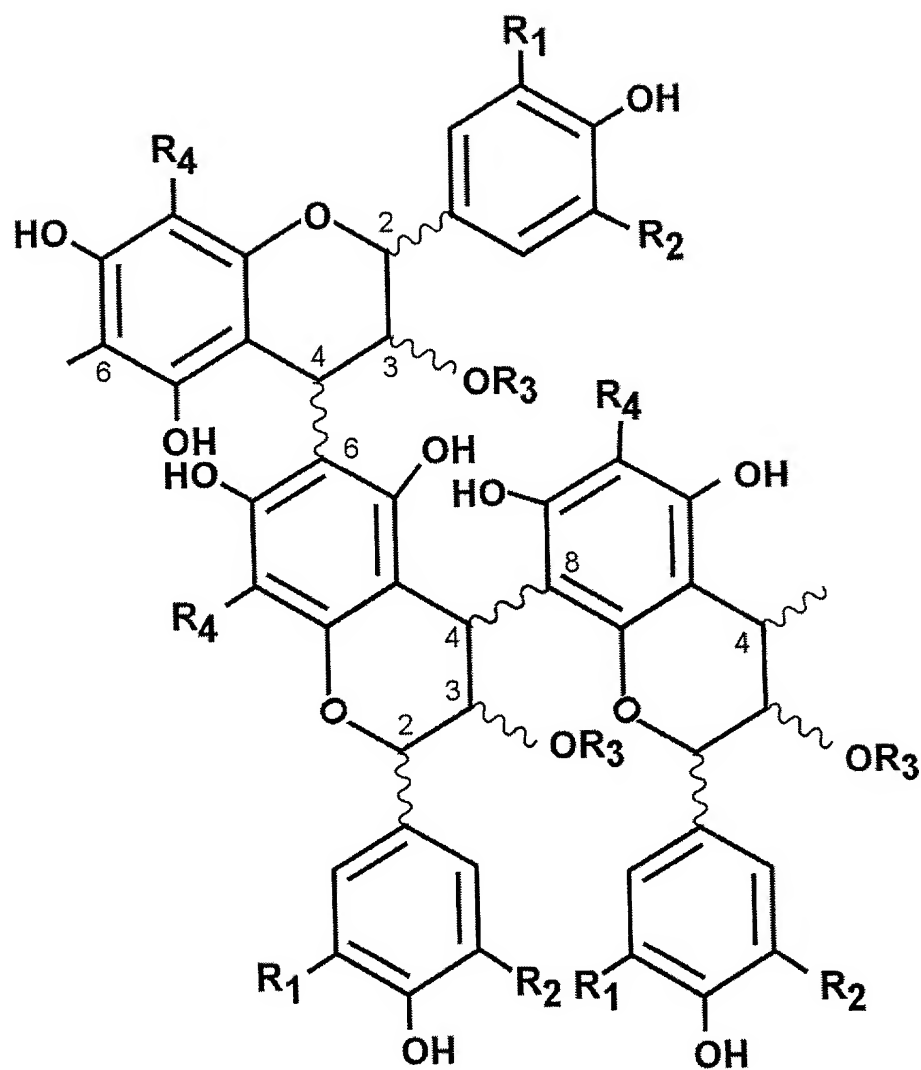


FIGURE 56

100% Methanol in Chloroform  
50% Methanol in Chloroform  
40% Methanol in Chloroform  
20% Methanol in Chloroform  
10% Methanol in Chloroform  
5% Acetone in Ethanol  
10% Acetone in Ethanol  
50% Acetone in Ethanol  
50% Acetone in Methanol  
100% Methanol

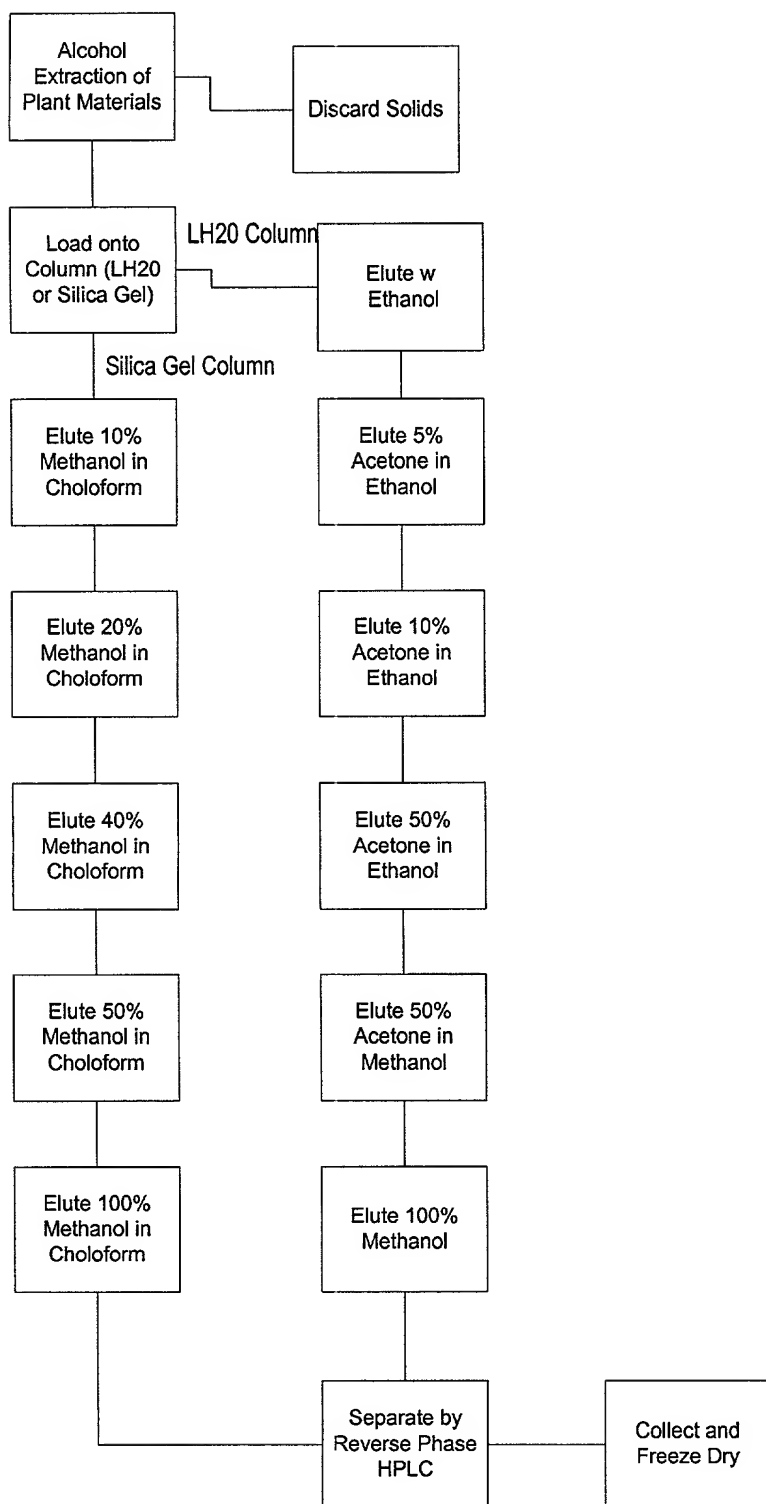


FIGURE 57